



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM

TITLE V/STATE OPERATING PERMIT

Issue Date: August 4, 2011

Effective Date: April 30, 2015

Revision Date: April 30, 2015

Expiration Date: August 3, 2016

Revision Type: Modification

In accordance with the provisions of the Air Pollution Control Act, the Act of January 8, 1960, P.L. 2119, as amended, and 25 Pa. Code Chapter 127, the Owner, [and Operator if noted] (hereinafter referred to as permittee) identified below is authorized by the Department of Environmental Protection (Department) to operate the air emission source(s) more fully described in this permit. This Facility is subject to all terms and conditions specified in this permit. Nothing in this permit relieves the permittee from its obligations to comply with all applicable Federal, State and Local laws and regulations.

The regulatory or statutory authority for each permit condition is set forth in brackets. All terms and conditions in this permit are federally enforceable applicable requirements unless otherwise designated as "State-Only" or "non-applicable" requirements.

TITLE V Permit No: 59-00004

Federal Tax Id - Plant Code: 71-1042639-1

Owner Information

Name: WARD MFG INC
Mailing Address: 117 GULICK ST
PO BOX 9
BLOSSBURG, PA 16912-0009

Plant Information

Plant: WARD MFG LLC/BLOSSBURG PLTS 1-3
Location: 59 Tioga County 59904 Blossburg Borough
SIC Code: 3322 Manufacturing - Malleable Iron Foundries

Responsible Official

Name: ARTHUR P GUIDI
Title: PRESIDENT & COO
Phone: (570) 638 - 2131

Permit Contact Person

Name: BRYAN BUCKLEN
Title: ENVIRONMENTAL CONSULTANT
Phone: (570) 638 - 2131

[Signature] _____
MUHAMMAD Q. ZAMAN, ENVIRONMENTAL PROGRAM MANAGER, NORTHCENTRAL REGION

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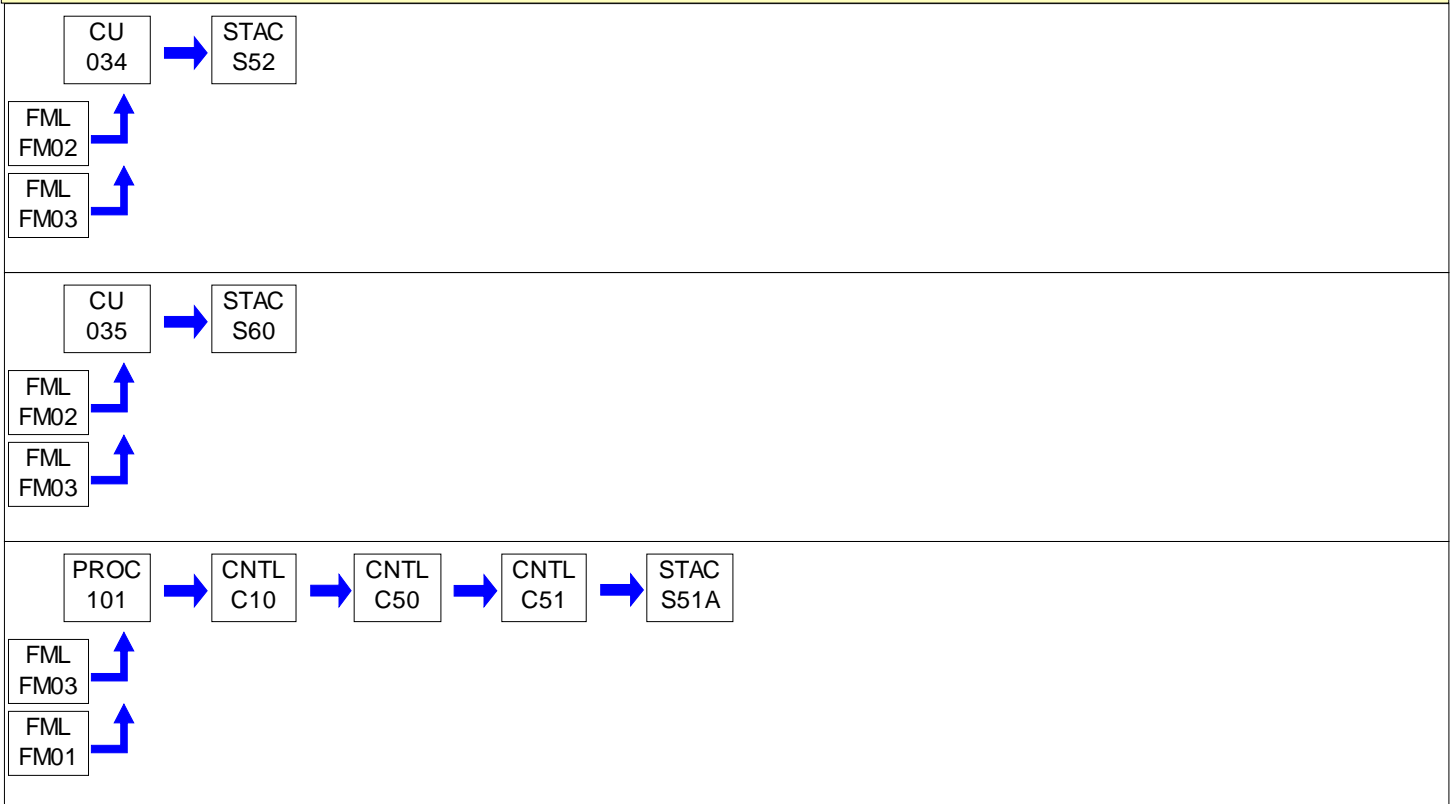
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**SECTION A. Site Inventory List**

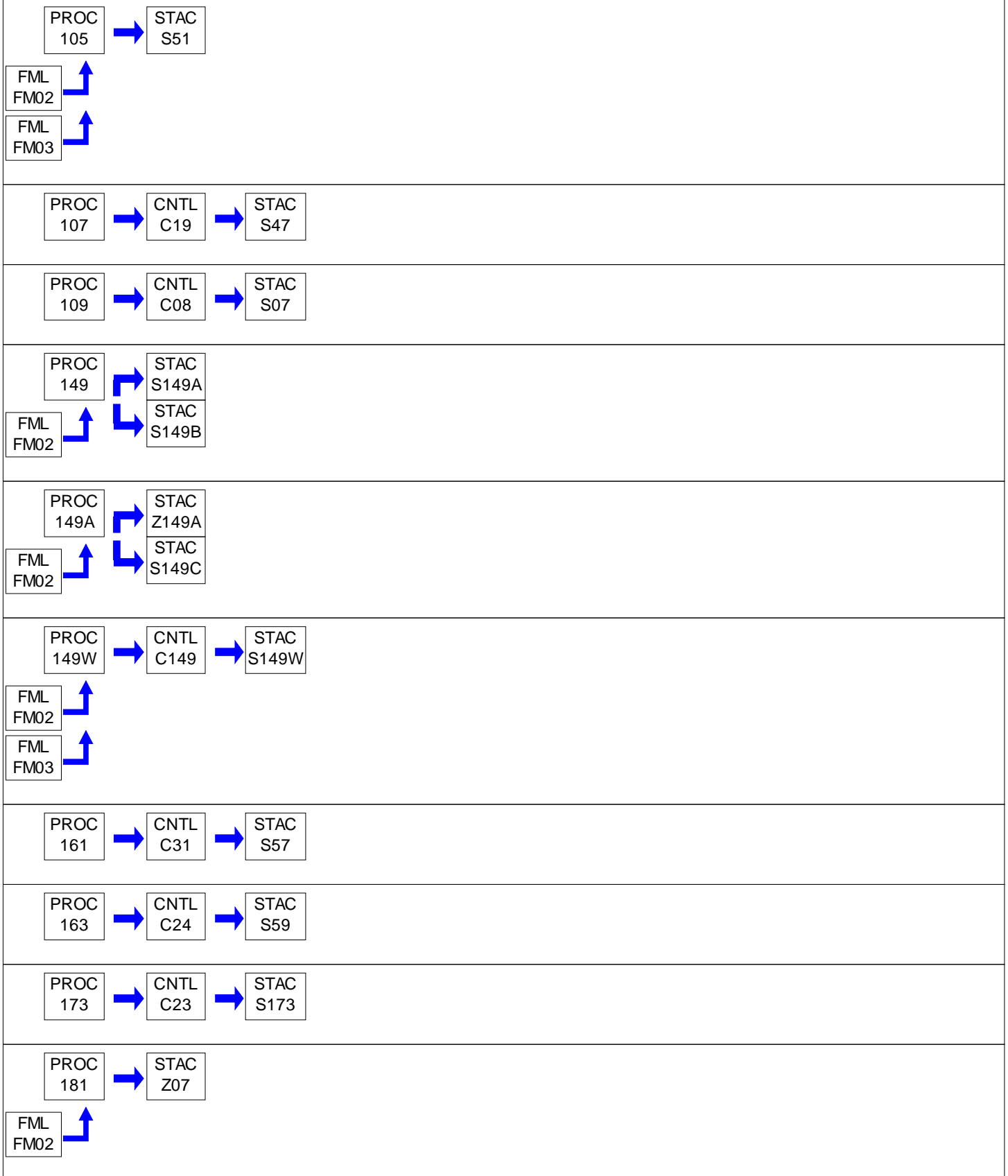
Source ID	Source Name	Capacity/Throughput	Fuel/Material
034	18 AIR MAKEUP UNITS		
035	COMBUSTION UNITS		
101	CUPOLA		
105	ANNEAL OVENS		
107	3 TUMBLAST MACHINES	12.000 Tons/HR	CASTINGS
109	23 GRINDERS & SANDERS	16.000 Tons/HR	CASTINGS
149	CORE ROOM OPERATIONS	400.000 Lbs/HR	CORE BINDERS
149A	NEW CORE MACHINES		
149W	FURAN WARM BOX CORE MACHINE		
161	DIP TANK & PARTS SPINNER	3.000 Tons/HR	CASTINGS
163	5 TUMBLAST MACHINES	25.000 Tons/HR	CASTINGS
173	MOLDING & CASTING OPERATIONS		
181	PLANT 1 EVAPORATOR		
181A	WASTEWATER EVAPORATOR		
183	SCRAP & CHARGE HANDLING OPERATIONS		
185	BOND SILO		
189	EMERGENCY GENERATORS		
191	14 PARTS WASHERS		
199	MOLDING LINES (SP01, SP02, & SP03)		
C05	SPO1 FABRIC COLLECTOR		
C06	SPO2 FABRIC COLLECTOR		
C07	SPO3 FABRIC COLLECTOR		
C08	FABRIC COLLECTOR #1111TA		
C10	2 AFTERBURNERS		
C149	FABRIC COLLECTOR		
C19	FABRIC COLLECTOR #1715TA		
C21	BIN VENT & FILTER		
C23	FABRIC COLLECTOR #1715		
C24	FARR TENKAY MODEL 32D CARTRIDGE COLL.		
C31	FABRIC COLLECTOR #3917TA		
C32	INTEGRAL AFTERBURNER		
C50	SEAL CAP AND DROP OUT BOX		
C51	CUPOLA FABRIC COLLECTOR		
FM01	COKE STORAGE AREA		
FM02	NATURAL GAS LINE		
FM03	PROPANE		
S05	SPO #1 FABRIC COL STACK		
S06	SPO #2 FABRIC COL STACK		
S07	FABRIC COL STACK#1111TA		
S08	SPO #3 FABRIC COL STACK		

**SECTION A. Site Inventory List**

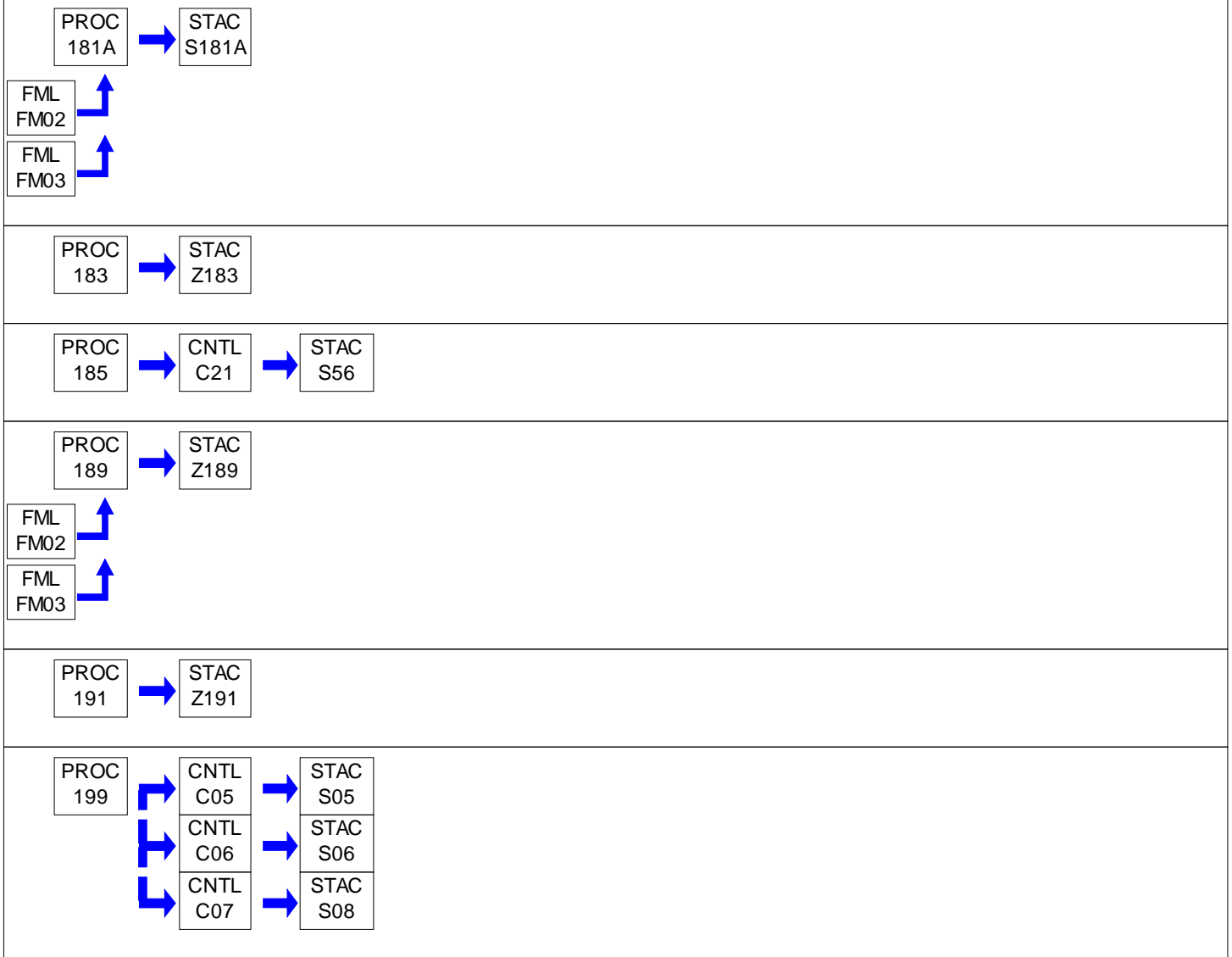
Source ID	Source Name	Capacity/Throughput	Fuel/Material
S149A	CORE EXHUSTS		
S149B	CORES EXHAUSTS		
S149C	NEW CORE MACHINES STACKS		
S149W	WARM BOX MACHINE STACK		
S173	PROCESS 173 EXHAUST		
S181A	WASTEWATER EVAPORATOR STACK		
S47	FAB COL STACK#1715TA		
S51	ANNEAL OVEN STACKS		
S51A	CUPOLA FABRIC COLLECTOR STACK		
S52	HEATER STACKS/FUG EMISS		
S56	BIN VENT & FILTER STACK		
S57	FABRIC COL STACK#3917TA		
S59	SHOT BLAST MACHINES STACK		
S60	COMB UNIT STACKS/FUG EMIS		
Z07	EVAPORATOR FUG EMISSIONS		
Z149A	NEW CORE MACHINES EMISSIONS		
Z183	SCRAP HANDLING EMISSIONS		
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Z191	WASHER EMISSIONS		

PERMIT MAPS

PERMIT MAPS



PERMIT MAPS



SECTION B. General Title V Requirements

#001 [25 Pa. Code § 121.1]

Definitions

Words and terms that are not otherwise defined in this permit shall have the meanings set forth in Section 3 of the Air Pollution Control Act (35 P.S. § 4003) and 25 Pa. Code § 121.1.

#002 [25 Pa. Code § 127.512(c)(4)]

Property Rights

This permit does not convey property rights of any sort, or any exclusive privileges.

#003 [25 Pa. Code § 127.446(a) and (c)]

Permit Expiration

This operating permit is issued for a fixed term of five (5) years and shall expire on the date specified on Page 1 of this permit. The terms and conditions of the expired permit shall automatically continue pending issuance of a new Title V permit, provided the permittee has submitted a timely and complete application and paid applicable fees required under 25 Pa. Code Chapter 127, Subchapter I and the Department is unable, through no fault of the permittee, to issue or deny a new permit before the expiration of the previous permit. An application is complete if it contains sufficient information to begin processing the application, has the applicable sections completed and has been signed by a responsible official.

#004 [25 Pa. Code §§ 127.412, 127.413, 127.414, 127.446(e) & 127.503]

Permit Renewal

(a) An application for the renewal of the Title V permit shall be submitted to the Department at least six (6) months, and not more than 18 months, before the expiration date of this permit. The renewal application is timely if a complete application is submitted to the Department's Regional Air Manager within the timeframe specified in this permit condition.

(b) The application for permit renewal shall include the current permit number, the appropriate permit renewal fee, a description of any permit revisions and off-permit changes that occurred during the permit term, and any applicable requirements that were promulgated and not incorporated into the permit during the permit term.

(c) The renewal application shall also include submission of proof that the local municipality and county, in which the facility is located, have been notified in accordance with 25 Pa. Code § 127.413. The application for renewal of the Title V permit shall also include submission of compliance review forms which have been used by the permittee to update information submitted in accordance with either 25 Pa. Code § 127.412(b) or § 127.412(j).

(d) The permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in the permit application, shall promptly submit such supplementary facts or corrected information during the permit renewal process. The permittee shall also promptly provide additional information as necessary to address any requirements that become applicable to the source after the date a complete renewal application was submitted but prior to release of a draft permit.

#005 [25 Pa. Code §§ 127.450(a)(4) & 127.464(a)]

Transfer of Ownership or Operational Control

(a) In accordance with 25 Pa. Code § 127.450(a)(4), a change in ownership or operational control of the source shall be treated as an administrative amendment if:

(1) The Department determines that no other change in the permit is necessary;

(2) A written agreement has been submitted to the Department identifying the specific date of the transfer of permit responsibility, coverage and liability between the current and the new permittee; and,

(3) A compliance review form has been submitted to the Department and the permit transfer has been approved by the Department.

SECTION B. General Title V Requirements

(b) In accordance with 25 Pa. Code § 127.464(a), this permit may not be transferred to another person except in cases of transfer-of-ownership which are documented and approved to the satisfaction of the Department.

#006 [25 Pa. Code § 127.513, 35 P.S. § 4008 and § 114 of the CAA]

Inspection and Entry

(a) Upon presentation of credentials and other documents as may be required by law for inspection and entry purposes, the permittee shall allow the Department of Environmental Protection or authorized representatives of the Department to perform the following:

- (1) Enter at reasonable times upon the permittee's premises where a Title V source is located or emissions related activity is conducted, or where records are kept under the conditions of this permit;
- (2) Have access to and copy or remove, at reasonable times, records that are kept under the conditions of this permit;
- (3) Inspect at reasonable times, facilities, equipment including monitoring and air pollution control equipment, practices, or operations regulated or required under this permit;
- (4) Sample or monitor, at reasonable times, substances or parameters, for the purpose of assuring compliance with the permit or applicable requirements as authorized by the Clean Air Act, the Air Pollution Control Act, or the regulations promulgated under the Acts.

(b) Pursuant to 35 P.S. § 4008, no person shall hinder, obstruct, prevent or interfere with the Department or its personnel in the performance of any duty authorized under the Air Pollution Control Act.

(c) Nothing in this permit condition shall limit the ability of the EPA to inspect or enter the premises of the permittee in accordance with Section 114 or other applicable provisions of the Clean Air Act.

#007 [25 Pa. Code §§ 127.25, 127.444, & 127.512(c)(1)]

Compliance Requirements

(a) The permittee shall comply with the conditions of this permit. Noncompliance with this permit constitutes a violation of the Clean Air Act and the Air Pollution Control Act and is grounds for one (1) or more of the following:

- (1) Enforcement action
- (2) Permit termination, revocation and reissuance or modification
- (3) Denial of a permit renewal application

(b) A person may not cause or permit the operation of a source, which is subject to 25 Pa. Code Article III, unless the source(s) and air cleaning devices identified in the application for the plan approval and operating permit and the plan approval issued to the source are operated and maintained in accordance with specifications in the applications and the conditions in the plan approval and operating permit issued by the Department. A person may not cause or permit the operation of an air contamination source subject to 25 Pa. Code Chapter 127 in a manner inconsistent with good operating practices.

(c) For purposes of Sub-condition (b) of this permit condition, the specifications in applications for plan approvals and operating permits are the physical configurations and engineering design details which the Department determines are essential for the permittee's compliance with the applicable requirements in this Title V permit.

#008 [25 Pa. Code § 127.512(c)(2)]

Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

SECTION B. General Title V Requirements

#009 [25 Pa. Code §§ 127.411(d) & 127.512(c)(5)]

Duty to Provide Information

- (a) The permittee shall furnish to the Department, within a reasonable time, information that the Department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit, or to determine compliance with the permit.
- (b) Upon request, the permittee shall also furnish to the Department copies of records that the permittee is required to keep by this permit, or for information claimed to be confidential, the permittee may furnish such records directly to the Administrator of EPA along with a claim of confidentiality.

#010 [25 Pa. Code §§ 127.463, 127.512(c)(3) & 127.542]

Reopening and Revising the Title V Permit for Cause

- (a) This Title V permit may be modified, revoked, reopened and reissued or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay a permit condition.
- (b) This permit may be reopened, revised and reissued prior to expiration of the permit under one or more of the following circumstances:
- (1) Additional applicable requirements under the Clean Air Act or the Air Pollution Control Act become applicable to a Title V facility with a remaining permit term of three (3) or more years prior to the expiration date of this permit. The Department will revise the permit as expeditiously as practicable but not later than 18 months after promulgation of the applicable standards or regulations. No such revision is required if the effective date of the requirement is later than the expiration date of this permit, unless the original permit or its terms and conditions has been extended.
 - (2) Additional requirements, including excess emissions requirements, become applicable to an affected source under the acid rain program. Upon approval by the Administrator of EPA, excess emissions offset plans for an affected source shall be incorporated into the permit.
 - (3) The Department or the EPA determines that this permit contains a material mistake or inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit.
 - (4) The Department or the Administrator of EPA determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
- (c) Proceedings to revise this permit shall follow the same procedures which apply to initial permit issuance and shall affect only those parts of this permit for which cause to revise exists. The revision shall be made as expeditiously as practicable.
- (d) Regardless of whether a revision is made in accordance with (b)(1) above, the permittee shall meet the applicable standards or regulations promulgated under the Clean Air Act within the time frame required by standards or regulations.

#011 [25 Pa. Code § 127.543]

Reopening a Title V Permit for Cause by EPA

As required by the Clean Air Act and regulations adopted thereunder, this permit may be modified, reopened and reissued, revoked or terminated for cause by EPA in accordance with procedures specified in 25 Pa. Code § 127.543.

#012 [25 Pa. Code § 127.541]

Significant Operating Permit Modifications

When permit modifications during the term of this permit do not qualify as minor permit modifications or administrative amendments, the permittee shall submit an application for significant Title V permit modifications in accordance with 25 Pa. Code § 127.541.

SECTION B. General Title V Requirements

#013 [25 Pa. Code §§ 121.1 & 127.462]

Minor Operating Permit Modifications

The permittee may make minor operating permit modifications (as defined in 25 Pa. Code §121.1), on an expedited basis, in accordance with 25 Pa. Code §127.462 (relating to minor operating permit modifications).

#014 [25 Pa. Code § 127.450]

Administrative Operating Permit Amendments

- (a) The permittee may request administrative operating permit amendments, as defined in 25 Pa. Code §127.450(a).
- (b) Upon final action by the Department granting a request for an administrative operating permit amendment covered under §127.450(a)(5), the permit shield provisions in 25 Pa. Code § 127.516 (relating to permit shield) shall apply to administrative permit amendments incorporated in this Title V Permit in accordance with §127.450(c), unless precluded by the Clean Air Act or the regulations thereunder.

#015 [25 Pa. Code § 127.512(b)]

Severability Clause

The provisions of this permit are severable, and if any provision of this permit is determined by the Environmental Hearing Board or a court of competent jurisdiction, or US EPA to be invalid or unenforceable, such a determination will not affect the remaining provisions of this permit.

#016 [25 Pa. Code §§ 127.704, 127.705 & 127.707]

Fee Payment

- (a) The permittee shall pay fees to the Department in accordance with the applicable fee schedules in 25 Pa. Code Chapter 127, Subchapter I (relating to plan approval and operating permit fees).
- (b) Emission Fees. The permittee shall, on or before September 1st of each year, pay applicable annual Title V emission fees for emissions occurring in the previous calendar year as specified in 25 Pa. Code § 127.705. The permittee is not required to pay an emission fee for emissions of more than 4,000 tons of each regulated pollutant emitted from the facility.
- (c) As used in this permit condition, the term "regulated pollutant" is defined as a VOC, each pollutant regulated under Sections 111 and 112 of the Clean Air Act and each pollutant for which a National Ambient Air Quality Standard has been promulgated, except that carbon monoxide is excluded.
- (d) Late Payment. Late payment of emission fees will subject the permittee to the penalties prescribed in 25 Pa. Code § 127.707 and may result in the suspension or termination of the Title V permit. The permittee shall pay a penalty of fifty percent (50%) of the fee amount, plus interest on the fee amount computed in accordance with 26 U.S.C.A. § 6621(a)(2) from the date the emission fee should have been paid in accordance with the time frame specified in 25 Pa. Code § 127.705(c).
- (e) The permittee shall pay an annual operating permit administration fee according to the fee schedule established in 25 Pa. Code § 127.704(c) if the facility, identified in Subparagraph (iv) of the definition of the term "Title V facility" in 25 Pa. Code § 121.1, is subject to Title V after the EPA Administrator completes a rulemaking requiring regulation of those sources under Title V of the Clean Air Act.
- (f) This permit condition does not apply to a Title V facility which qualifies for exemption from emission fees under 35 P.S. § 4006.3(f).

#017 [25 Pa. Code §§ 127.14(b) & 127.449]

Authorization for De Minimis Emission Increases

- (a) This permit authorizes de minimis emission increases from a new or existing source in accordance with 25 Pa. Code §§ 127.14 and 127.449 without the need for a plan approval or prior issuance of a permit modification. The permittee shall provide the Department with seven (7) days prior written notice before commencing any de minimis emissions increase that would result from either: (1) a physical change of minor significance under § 127.14(c)(1); or

SECTION B. General Title V Requirements

(2) the construction, installation, modification or reactivation of an air contamination source. The written notice shall:

- (1) Identify and describe the pollutants that will be emitted as a result of the de minimis emissions increase.
- (2) Provide emission rates expressed in tons per year and in terms necessary to establish compliance consistent with any applicable requirement.

The Department may disapprove or condition de minimis emission increases at any time.

(b) Except as provided below in (c) and (d) of this permit condition, the permittee is authorized during the term of this permit to make de minimis emission increases (expressed in tons per year) up to the following amounts without the need for a plan approval or prior issuance of a permit modification:

- (1) Four tons of carbon monoxide from a single source during the term of the permit and 20 tons of carbon monoxide at the facility during the term of the permit.
- (2) One ton of NO_x from a single source during the term of the permit and 5 tons of NO_x at the facility during the term of the permit.
- (3) One and six-tenths tons of the oxides of sulfur from a single source during the term of the permit and 8.0 tons of oxides of sulfur at the facility during the term of the permit.
- (4) Six-tenths of a ton of PM₁₀ from a single source during the term of the permit and 3.0 tons of PM₁₀ at the facility during the term of the permit. This shall include emissions of a pollutant regulated under Section 112 of the Clean Air Act unless precluded by the Clean Air Act or 25 Pa. Code Article III.
- (5) One ton of VOCs from a single source during the term of the permit and 5.0 tons of VOCs at the facility during the term of the permit. This shall include emissions of a pollutant regulated under Section 112 of the Clean Air Act unless precluded by the Clean Air Act or 25 Pa. Code Article III.

(c) In accordance with § 127.14, the permittee may install the following minor sources without the need for a plan approval:

- (1) Air conditioning or ventilation systems not designed to remove pollutants generated or released from other sources.
- (2) Combustion units rated at 2,500,000 or less Btu per hour of heat input.
- (3) Combustion units with a rated capacity of less than 10,000,000 Btu per hour heat input fueled by natural gas supplied by a public utility, liquefied petroleum gas or by commercial fuel oils which are No. 2 or lighter, viscosity less than or equal to 5.82 c St, and which meet the sulfur content requirements of 25 Pa. Code § 123.22 (relating to combustion units). For purposes of this permit, commercial fuel oil shall be virgin oil which has no reprocessed, recycled or waste material added.
- (4) Space heaters which heat by direct heat transfer.
- (5) Laboratory equipment used exclusively for chemical or physical analysis.
- (6) Other sources and classes of sources determined to be of minor significance by the Department.

(d) This permit does not authorize de minimis emission increases if the emissions increase would cause one or more of the following:

- (1) Increase the emissions of a pollutant regulated under Section 112 of the Clean Air Act except as authorized in Subparagraphs (b)(4) and (5) of this permit condition.
- (2) Subject the facility to the prevention of significant deterioration requirements in 25 Pa. Code Chapter 127, Subchapter D and/or the new source review requirements in Subchapter E.

SECTION B. General Title V Requirements

(3) Violate any applicable requirement of the Air Pollution Control Act, the Clean Air Act, or the regulations promulgated under either of the acts.

(4) Changes which are modifications under any provision of Title I of the Clean Air Act and emission increases which would exceed the allowable emissions level (expressed as a rate of emissions or in terms of total emissions) under the Title V permit.

(e) Unless precluded by the Clean Air Act or the regulations thereunder, the permit shield described in 25 Pa. Code § 127.516 (relating to permit shield) shall extend to the changes made under 25 Pa. Code § 127.449 (relating to de minimis emission increases).

(f) Emissions authorized under this permit condition shall be included in the monitoring, recordkeeping and reporting requirements of this permit.

(g) Except for de minimis emission increases allowed under this permit, 25 Pa. Code § 127.449, or sources and physical changes meeting the requirements of 25 Pa. Code § 127.14, the permittee is prohibited from making physical changes or engaging in activities that are not specifically authorized under this permit without first applying for a plan approval. In accordance with § 127.14(b), a plan approval is not required for the construction, modification, reactivation, or installation of the sources creating the de minimis emissions increase.

(h) The permittee may not meet de minimis emission threshold levels by offsetting emission increases or decreases at the same source.

#018 [25 Pa. Code §§ 127.11a & 127.215]

Reactivation of Sources

(a) The permittee may reactivate a source at the facility that has been out of operation or production for at least one year, but less than or equal to five (5) years, if the source is reactivated in accordance with the requirements of 25 Pa. Code §§ 127.11a and 127.215. The reactivated source will not be considered a new source.

(b) A source which has been out of operation or production for more than five (5) years but less than 10 years may be reactivated and will not be considered a new source if the permittee satisfies the conditions specified in 25 Pa. Code § 127.11a(b).

#019 [25 Pa. Code §§ 121.9 & 127.216]

Circumvention

(a) The owner of this Title V facility, or any other person, may not circumvent the new source review requirements of 25 Pa. Code Chapter 127, Subchapter E by causing or allowing a pattern of ownership or development, including the phasing, staging, delaying or engaging in incremental construction, over a geographic area of a facility which, except for the pattern of ownership or development, would otherwise require a permit or submission of a plan approval application.

(b) No person may permit the use of a device, stack height which exceeds good engineering practice stack height, dispersion technique or other technique which, without resulting in reduction of the total amount of air contaminants emitted, conceals or dilutes an emission of air contaminants which would otherwise be in violation of this permit, the Air Pollution Control Act or the regulations promulgated thereunder, except that with prior approval of the Department, the device or technique may be used for control of malodors.

#020 [25 Pa. Code §§ 127.402(d) & 127.513(1)]

Submissions

(a) Reports, test data, monitoring data, notifications and requests for renewal of the permit shall be submitted to the:

Regional Air Program Manager
PA Department of Environmental Protection
(At the address given on the permit transmittal letter,
or otherwise notified)

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(b) Any report or notification for the EPA Administrator or EPA Region III should be addressed to:

Office of Air Enforcement and Compliance Assistance (3AP20)
United States Environmental Protection Agency
Region 3
1650 Arch Street
Philadelphia, PA 19103-2029

(c) An application, form, report or compliance certification submitted pursuant to this permit condition shall contain certification by a responsible official as to truth, accuracy, and completeness as required under 25 Pa. Code § 127.402(d). Unless otherwise required by the Clean Air Act or regulations adopted thereunder, this certification and any other certification required pursuant to this permit shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.

#021 [25 Pa. Code §§ 127.441(c) & 127.463(e); Chapter 139; & 114(a)(3), 504(b) of the CAA]

Sampling, Testing and Monitoring Procedures

(a) The permittee shall perform the emissions monitoring and analysis procedures or test methods for applicable requirements of this Title V permit. In addition to the sampling, testing and monitoring procedures specified in this permit, the Permittee shall comply with any additional applicable requirements promulgated under the Clean Air Act after permit issuance regardless of whether the permit is revised.

(b) The sampling, testing and monitoring required under the applicable requirements of this permit, shall be conducted in accordance with the requirements of 25 Pa. Code Chapter 139 unless alternative methodology is required by the Clean Air Act (including §§ 114(a)(3) and 504(b)) and regulations adopted thereunder.

#022 [25 Pa. Code §§ 127.511 & Chapter 135]

Recordkeeping Requirements

(a) The permittee shall maintain and make available, upon request by the Department, records of required monitoring information that include the following:

- (1) The date, place (as defined in the permit) and time of sampling or measurements.
- (2) The dates the analyses were performed.
- (3) The company or entity that performed the analyses.
- (4) The analytical techniques or methods used.
- (5) The results of the analyses.
- (6) The operating conditions as existing at the time of sampling or measurement.

(b) The permittee shall retain records of the required monitoring data and supporting information for at least five (5) years from the date of the monitoring sample, measurement, report or application. Supporting information includes the calibration data and maintenance records and original strip-chart recordings for continuous monitoring instrumentation, and copies of reports required by the permit.

(c) The permittee shall maintain and make available to the Department upon request, records including computerized records that may be necessary to comply with the reporting, recordkeeping and emission statement requirements in 25 Pa. Code Chapter 135 (relating to reporting of sources). In accordance with 25 Pa. Code Chapter 135, § 135.5, such records may include records of production, fuel usage, maintenance of production or pollution control equipment or other information determined by the Department to be necessary for identification and quantification of potential and actual air contaminant emissions. If direct recordkeeping is not possible or practical, sufficient records shall be kept to provide the needed information by indirect means.

SECTION B. General Title V Requirements

#023 [25 Pa. Code §§ 127.411(d), 127.442, 127.463(e) & 127.511(c)]

Reporting Requirements

- (a) The permittee shall comply with the reporting requirements for the applicable requirements specified in this Title V permit. In addition to the reporting requirements specified herein, the permittee shall comply with any additional applicable reporting requirements promulgated under the Clean Air Act after permit issuance regardless of whether the permit is revised.
- (b) Pursuant to 25 Pa. Code § 127.511(c), the permittee shall submit reports of required monitoring at least every six (6) months unless otherwise specified in this permit. Instances of deviations (as defined in 25 Pa. Code § 121.1) from permit requirements shall be clearly identified in the reports. The reporting of deviations shall include the probable cause of the deviations and corrective actions or preventative measures taken, except that sources with continuous emission monitoring systems shall report according to the protocol established and approved by the Department for the source. The required reports shall be certified by a responsible official.
- (c) Every report submitted to the Department under this permit condition shall comply with the submission procedures specified in Section B, Condition #020(c) of this permit.
- (d) Any records, reports or information obtained by the Department or referred to in a public hearing shall be made available to the public by the Department except for such records, reports or information for which the permittee has shown cause that the documents should be considered confidential and protected from disclosure to the public under Section 4013.2 of the Air Pollution Control Act and consistent with Sections 112(d) and 114(c) of the Clean Air Act and 25 Pa. Code § 127.411(d). The permittee may not request a claim of confidentiality for any emissions data generated for the Title V facility.

#024 [25 Pa. Code § 127.513]

Compliance Certification

- (a) One year after the date of issuance of the Title V permit, and each year thereafter, unless specified elsewhere in the permit, the permittee shall submit to the Department and EPA Region III a certificate of compliance with the terms and conditions in this permit, for the previous year, including the emission limitations, standards or work practices. This certification shall include:
- (1) The identification of each term or condition of the permit that is the basis of the certification.
 - (2) The compliance status.
 - (3) The methods used for determining the compliance status of the source, currently and over the reporting period.
 - (4) Whether compliance was continuous or intermittent.
- (b) The compliance certification shall be postmarked or hand-delivered no later than thirty days after each anniversary of the date of issuance of this Title V Operating Permit, or on the submittal date specified elsewhere in the permit, to the Department and EPA in accordance with the submission requirements specified in condition #020 of this section.

#025 [25 Pa. Code § 127.3]

Operational Flexibility

The permittee is authorized to make changes within the Title V facility in accordance with the following provisions in 25 Pa. Code Chapter 127 which implement the operational flexibility requirements of Section 502(b)(10) of the Clean Air Act and Section 6.1(i) of the Air Pollution Control Act:

- (1) Section 127.14 (relating to exemptions)
- (2) Section 127.447 (relating to alternative operating scenarios)
- (3) Section 127.448 (relating to emissions trading at facilities with federally enforceable emissions caps)
- (4) Section 127.449 (relating to de minimis emission increases)

SECTION B. General Title V Requirements

(5) Section 127.450 (relating to administrative operating permit amendments)

(6) Section 127.462 (relating to minor operating permit amendments)

(7) Subchapter H (relating to general plan approvals and operating permits)

#026 [25 Pa. Code §§ 127.441(d), 127.512(i) and 40 CFR Part 68]

Risk Management

(a) If required by Section 112(r) of the Clean Air Act, the permittee shall develop and implement an accidental release program consistent with requirements of the Clean Air Act, 40 CFR Part 68 (relating to chemical accident prevention provisions) and the Federal Chemical Safety Information, Site Security and Fuels Regulatory Relief Act (P.L. 106-40).

(b) The permittee shall prepare and implement a Risk Management Plan (RMP) which meets the requirements of Section 112(r) of the Clean Air Act, 40 CFR Part 68 and the Federal Chemical Safety Information, Site Security and Fuels Regulatory Relief Act when a regulated substance listed in 40 CFR § 68.130 is present in a process in more than the listed threshold quantity at the Title V facility. The permittee shall submit the RMP to the federal Environmental Protection Agency according to the following schedule and requirements:

(1) The permittee shall submit the first RMP to a central point specified by EPA no later than the latest of the following:

(i) Three years after the date on which a regulated substance is first listed under § 68.130; or,

(ii) The date on which a regulated substance is first present above a threshold quantity in a process.

(2) The permittee shall submit any additional relevant information requested by the Department or EPA concerning the RMP and shall make subsequent submissions of RMPs in accordance with 40 CFR § 68.190.

(3) The permittee shall certify that the RMP is accurate and complete in accordance with the requirements of 40 CFR Part 68, including a checklist addressing the required elements of a complete RMP.

(c) As used in this permit condition, the term "process" shall be as defined in 40 CFR § 68.3. The term "process" means any activity involving a regulated substance including any use, storage, manufacturing, handling, or on-site movement of such substances or any combination of these activities. For purposes of this definition, any group of vessels that are interconnected, or separate vessels that are located such that a regulated substance could be involved in a potential release, shall be considered a single process.

(d) If the Title V facility is subject to 40 CFR Part 68, as part of the certification required under this permit, the permittee shall:

(1) Submit a compliance schedule for satisfying the requirements of 40 CFR Part 68 by the date specified in 40 CFR § 68.10(a); or,

(2) Certify that the Title V facility is in compliance with all requirements of 40 CFR Part 68 including the registration and submission of the RMP.

(e) If the Title V facility is subject to 40 CFR Part 68, the permittee shall maintain records supporting the implementation of an accidental release program for five (5) years in accordance with 40 CFR § 68.200.

(f) When the Title V facility is subject to the accidental release program requirements of Section 112(r) of the Clean Air Act and 40 CFR Part 68, appropriate enforcement action will be taken by the Department if:

(1) The permittee fails to register and submit the RMP or a revised plan pursuant to 40 CFR Part 68.

(2) The permittee fails to submit a compliance schedule or include a statement in the compliance certification required under Condition #24 of Section B of this Title V permit that the Title V facility is in compliance with the requirements of Section 112(r) of the Clean Air Act, 40 CFR Part 68, and 25 Pa. Code § 127.512(i).

SECTION B. General Title V Requirements**#027 [25 Pa. Code § 127.512(e)]****Approved Economic Incentives and Emission Trading Programs**

No permit revision shall be required under approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this Title V permit.

#028 [25 Pa. Code §§ 127.516, 127.450(d), 127.449(f) & 127.462(g)]**Permit Shield**

(a) The permittee's compliance with the conditions of this permit shall be deemed in compliance with applicable requirements (as defined in 25 Pa. Code § 121.1) as of the date of permit issuance if either of the following applies:

(1) The applicable requirements are included and are specifically identified in this permit.

(2) The Department specifically identifies in the permit other requirements that are not applicable to the permitted facility or source.

(b) Nothing in 25 Pa. Code § 127.516 or the Title V permit shall alter or affect the following:

(1) The provisions of Section 303 of the Clean Air Act, including the authority of the Administrator of the EPA provided thereunder.

(2) The liability of the permittee for a violation of an applicable requirement prior to the time of permit issuance.

(3) The applicable requirements of the acid rain program, consistent with Section 408(a) of the Clean Air Act.

(4) The ability of the EPA to obtain information from the permittee under Section 114 of the Clean Air Act.

(c) Unless precluded by the Clean Air Act or regulations thereunder, final action by the Department incorporating a significant permit modification in this Title V Permit shall be covered by the permit shield at the time that the permit containing the significant modification is issued.

SECTION C. Site Level Requirements

I. RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §123.1]

Prohibition of certain fugitive emissions

No person may permit the emission into the outdoor atmosphere of a fugitive air contaminant from a source other than the following:

- (1) Construction or demolition of buildings or structures
- (2) Grading, paving and maintenance of roads and streets
- (3) Use of roads and streets. Emissions from material in or on trucks, railroad cars and other vehicular equipment are not considered as emissions from use of roads and streets.
- (4) Clearing of land
- (5) Stockpiling of materials.
- (6) Open burning operations.
- (7) Sources and classes of sources other than those identified above, for which the permittee has obtained a determination from the Department that fugitive emissions from the source, after appropriate control, meet the following requirements:

- (a) The emissions are of minor significance with respect to causing air pollution.
- (b) The emissions are not preventing or interfering with the attainment or maintenance of any ambient air quality standard.

002 [25 Pa. Code §123.2]

Fugitive particulate matter

A person may not permit fugitive particulate matter to be emitted into the outdoor atmosphere from a source specified in condition #001(1) through (7) above if the emissions are visible at the point the emissions pass outside the person's property.

003 [25 Pa. Code §123.31]

Limitations

A person may not permit the emission into the outdoor atmosphere of any malodorous air contaminants from any source in a manner such that the malodors are detectable outside the property of the person on whose land the source is being operated.

004 [25 Pa. Code §123.42]

Exceptions

The emission limitations of 25 Pa. Code Section 123.41 shall not apply when:

- (1) The presence of uncombined water is the only reason for failure of the emission to meet the limitations;
- (2) The emission results from the operation of equipment used solely to train and test persons in observing the opacity of visible emissions;
- (3) The emission results from sources specified in 25 Pa. Code Section 123.1(a)(1)-(9).

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for item (a) this permit condition is also derived from 25 Pa. Code Section 123.41]

[Compliance with this emission restriction will assure compliance with the provisions specified in 40 CFR Section 63.7690(a)(7), relating to opacity restriction]

A person may not permit the emission into the outdoor atmosphere of visible air contaminants in such a manner that the opacity of the emission is either of the following:

- (1) Equal to or greater than 20% for a period or period aggregating more than 3 minutes in any 1 hour.
- (2) Equal to or greater than 60% at any time.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 CFR 63.7710(d)]

- (a) For each furan warm box mold or core making line at this facility, the permittee shall not use any binder which contain methanol.

SECTION C. Site Level Requirements

(b) This requirement does not apply to the resin portion of the binder system

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

Pursuant to the RACT provisions of Sections 129.91 through 129.95 of Chapter 129 of Article III of the Rules and Regulations of the Department of Environmental Protection, the total amount of iron poured at this facility shall not exceed 226,680 tons in any 12 consecutive month period.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) The potential to emit volatile organic compounds from each of the following source categories shall never exceed 3 pounds per hour, 15 pounds per day or 2.7 tons per year (as determined by the Department).

(b) Should any of these limitations ever be exceeded for any of the source categories listed below, a detailed RACT analysis which meets the criteria specified in Section 129.92 of Chapter 129 of Article III of the Rules and Regulations of the Department of Environmental Protection must be submitted to the Department for each source contained in the respective source category.

Sources 034 and 035 - air makeup units and combustion units

Source P189 - natural gas/propane-fired emergency generators

Source P191 - cold batch cleaning machines

II. TESTING REQUIREMENTS.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from the Method 9 testing requirements specified in the provisions of 40 CFR Section 63.7731(b)]

(a) No later than 6 months from the date of previous performance test, the permittee shall perform performance tests in accordance with the EPA Method 9 and the provisions of 40 CFR Section 63.6(h)(5) to demonstrate compliance with the opacity emission limitation specified above under I. Restrictions.

(b) As required by the provisions specified in 25 Pa. Code Section 123.43, the performance tests of item (a) above are required to be performed by the following:

(1) A device approved by the Department and maintained to provide accurate opacity measurements.

(2) Observers, trained and qualified to measure plume opacity with the naked eye or with the aid of any devices approved by the Department.

010 [25 Pa. Code §139.1]

Sampling facilities.

Upon the request of the Department, the permittee shall provide adequate sampling ports, safe sampling platforms and adequate utilities for the performance by the Department of tests on the source. The Department will set forth, in the request, the time period within which the facilities shall be provided, as well as the specifications for the facilities.

011 [25 Pa. Code §139.11]

General requirements.

(a) As specified in 25 Pa. Code Section 139.11(1), performance tests shall be conducted while the source is operating at maximum routine operating conditions or under such other conditions, within the capacity of the equipment, as may be requested by the Department.

(b) As specified in 25 Pa. Code Section 139.11(2), the Department will consider test results for approval where sufficient information is provided to verify the source conditions existing at the time of the test and where adequate data is available to show the manner in which the test was conducted. Information submitted to the Department shall include, as a

SECTION C. Site Level Requirements

minimum, all of the following:

- (1) A thorough source description, including a description of any air cleaning devices and the flue.
- (2) Process conditions, for example, the charging rate of raw material or rate of production of final product, boiler pressure, oven temperature and other conditions which may effect emissions from the process.
- (3) The location of sampling ports.
- (4) Effluent characteristics, including velocity, temperature, moisture content, gas density (percentage of CO, CO₂, O₂ and N₂), static and barometric pressures.
- (5) Sample collection techniques employed, including procedures used, equipment descriptions and data to verify that isokinetic sampling for particulate matter collection occurred and that acceptable test conditions were met.
- (6) Laboratory procedures and results.
- (7) Calculated results.

III. MONITORING REQUIREMENTS.

012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code Section 127.511]

(a) The permittee shall conduct a weekly inspection of the facility, and a daily inspection of Source ID 101 during daylight hours while the facility is operating to detect visible air contaminant emissions, visible fugitive air contaminant emissions and malodorous air contaminant emissions. Inspections are necessary to determine:

- (1) the presence of visible air contaminant emissions,
- (2) the presence of visible fugitive air contaminant emissions beyond the boundaries of the facility,
- (3) the presence of malodorous air contaminant emissions beyond the boundaries of the facility.

(b) All detected visible air contaminant emissions or visible fugitive air contaminant emissions shall be reported to the manager of the facility.

IV. RECORDKEEPING REQUIREMENTS.

013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 CFR 63.7752]

(a) The permittee shall keep the following records and shall make them available to the Department for review upon request.

- (i) A copy of each notification and report submitted to comply with the conditions herein.
- (ii) Records specified in 40 CFR 63.6(e)(3)(iii) through (v) related to startup, shutdown, and malfunction.
- (iii) Records of performance tests and performance evaluations as required by 40 CFR 63.10(b)(2)(viii)
- (iv) Annual quantity of each chemical binder or coating material used to make molds and cores.
- (v) Material Data Safety Sheets or other documentation that provides the chemical composition for each chemical binder or coating material used to make molds and cores.
- (vi) Annual quantity of Hazardous Air Pollutant associated with the use of all chemical binders or coating materials used to make molds and cores.

(b) All information needed to satisfy the requirements of this permit condition shall be kept for a period of 5 years and shall be made available to the Department upon request.

014 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 CFR 63.7744]

(a) The permittee shall maintain records that document continuous compliance with the following

- (i) The certification requirements in 40 CFR 63.7700(b)
- (ii) The procedure in your scrap selection and inspection plan required in 40 CFR 63.7700(c)

(b) The records of item (2) above shall include a copy (kept onsite) of the procedures used by the scrap supplier for either removing accessible mercury switches or for purchasing automobile bodies that have had mercury switches removed, as

SECTION C. Site Level Requirements

applicable

(c) All information needed to satisfy the requirements of this permit condition shall be kept for a period of 5 years and shall be made available to the Department upon request.

015 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 CFR 63.7700]

(1) The permittee shall keep the required written certification and scrap selection and inspection plan available to the Department for review upon request.

(2) The scrap selection and inspection plan shall include all information required by 40 CFR 63.7710(c) and shall be kept onsite and readily available to all plan personnel with materials acquisition or inspection duties.

(3) The material specification of the scrap selection and inspection plan required by 40 CFR 63.7710(c) shall be provided to each of the facility's scrap vendors.

(4) All information needed to satisfy the requirements of this permit condition shall be kept for a period of 5 years and shall be made available to the Department upon request

016 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall maintain comprehensive and accurate records of the amount of iron poured each month at this facility.

These records shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

017 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep accurate and up-to-date records of the Material Safety Data Sheet for each binder used in the furan warm box mold and core making lines that demonstrates compliance with the restriction to use methanol listed above under I. Restriction.

018 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code Section 127.511]

(a) The permittee shall maintain a logbook that records each of the daily and weekly inspections and records the readings of the inspections for visible air contaminant emissions (VE), visible fugitive air contaminant emissions (FE) and malodorous air contaminant emissions. The report shall also include the name of the company representative performing the inspection, and the date and time of each inspection.

(b) These records shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

019 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) Pursuant to the RACT provisions of Sections 129.91 through 129.95 of Chapter 129 of Article III of the Rules and Regulations of the Department of Environmental Protection, the permittee shall keep continuous documentation and calculation for each of the source categories that demonstrate compliance with the RACT VOC emissions limitations for the following source categories.

- (1) Source P189 - natural gas/propane-fired emergency generators
- (2) Source P191 - cold batch cleaning machines
- (3) Sources 034 and 035 - air makeup units and combustion units

SECTION C. Site Level Requirements

020 [25 Pa. Code §135.5]

Recordkeeping

The permittee shall maintain, and make available upon request by the Department, such records, including computerized records, as may be necessary to comply with 135.3. These may include records of production, fuel usage, equipment maintenance or other information determined by the Department to be necessary for identification and quantification of air contaminant emissions.

V. REPORTING REQUIREMENTS.

021 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall comply with all notification submittal requirements specified in the provisions of 40 CFR 63.7750.

022 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a) The permittee shall comply with the applicable reporting requirements specified in the provisions of 40 CFR 63.7751
- (b) As specified in 40 CFR 63.7751(a)(5), the reports required by 40 CFR 63.7751 may be submitted in accordance with the schedule specified below in provision (c).
- (c) Semiannual reports shall be submitted to the Department by March 1 (for the 6-month period from July to December of the previous year) and September 1 (for the 6-month period from January to June of the concurrent year).

023 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code Section 127.511]

- (a) The permittee shall report malfunctions which occur at this facility to the Department. A malfunction is any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment, process equipment, or a process to operate in a normal or usual manner which may result in an increase in the emission of air contaminants. Failures that are caused in part by poor maintenance or careless operation are not malfunctions.
- (b) Failures that are caused in part by poor maintenance or careless operation shall be reported as excess emissions or deviations from the permit requirements.
- (c) When the malfunction, excess emission or deviation from the operating permit requirements poses an imminent and substantial danger to the public health and safety or environment, the permittee shall notify the Department by telephone no later than one (1) hour after the incident.
- (d) Any malfunction, excess emission or deviation from the operating permit requirements, or any malfunction resulting in, or which may possibly be resulting in, a violation of any applicable permit requirement or any applicable rule or regulation contained in Article III of the Rules and Regulations of the Department of Environmental Protection, that is not subject to the notice requirements of subsection (c) of this condition shall be reported to the Department within twenty-four (24) hours of discovery. In notifying the Department, the permittee shall describe the following:
 - (i) name and location of the facility;
 - (ii) nature and cause of the malfunction or breakdown;
 - (iii) time when the malfunction or breakdown was first observed;
 - (iv) expected duration of excess emissions;
 - (v) estimated rate of emissions; and
 - (vi) corrective actions or preventative measures taken.
- (e) The permittee shall notify the Department immediately when corrective measures have been accomplished.
- (f) Upon the request of the Department, the permittee shall submit a full written report to the Regional Air Program Manager within fifteen (15) days of the malfunction, excess emission or deviation from the permit requirements.

SECTION C. Site Level Requirements

024 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall submit all requested reports in accordance with the Department's suggested format.

025 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from the provisions specified in 25 Pa. Code Section 135.3]

(a) The permittee shall submit an Annual Air Information Management Systems (AIMS) Emissions report by March 1 of each year that includes the total annual emissions from the air contaminant sources at the facility during the preceding calendar year. The report shall include information for all previously reported sources, new sources which were first operated during the preceding calendar year and sources modified during the same period which were not previously reported.

(b) The permittee may request an extension of time from the Department for the filing of an Annual Air Information Management Systems (AIMS) Emissions report, and the Department may grant the extension for reasonable cause.

026 [25 Pa. Code §135.21]

Emission statements

(a) The permittee shall provide the Department with a statement of each stationary source in a form as prescribed by the Department, showing the actual emissions of oxides of nitrogen and volatile organic compounds (VOCs) from the permitted facility for each reporting period, a description of the method used to calculate the emissions and the time period over which the calculation is based.

(b) The annual emission statements are due by March 1 for the preceding calendar year and shall contain a certification by a company officer or the plant manager that the information contained in the statement is accurate. The Emission Statement shall provide data consistent with requirements and guidance developed by the EPA.

(c) The Department may require more frequent submittals if the Department determines that one or more of the following applies:

(1) A more frequent submission is required by the EPA.

(2) Analysis of the data on a more frequent basis is necessary to implement the requirements of the Air Pollution Control Act.

VI. WORK PRACTICE REQUIREMENTS.

027 [25 Pa. Code §123.1]

Prohibition of certain fugitive emissions

For any source specified in 25 Pa. Code Section 123.1 subsection(s) (a)(1)-(7) or (a)(9), the permittee shall take all reasonable actions to prevent particulate matter from becoming airborne. These actions shall include, but not be limited to, the following:

(1) Use, where possible, of water or chemicals for control of dust in the demolition of buildings or structures, construction operations, the grading of roads or the clearing of land.

(2) Application of asphalt, oil, or suitable chemicals on dirt roads, material stockpiles and other surfaces which may give rise to airborne dusts.

(3) Paving and maintenance of roadways.

(4) Prompt removal of earth or other material from paved streets onto which earth or other material has been transported by trucking or earth moving equipment, erosion by water, or other means.

028 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall comply with the work practice standards of 40 CFR 63.7700 related to the material purchased and used by iron and steel foundries.

SECTION C. Site Level Requirements

VII. ADDITIONAL REQUIREMENTS.

029 [25 Pa. Code §121.7]

Prohibition of air pollution.

No person may permit air pollution as that term is defined in the act (The Air Pollution Control Act (35 P.S. §§ 4001-4015)).

030 [25 Pa. Code §127.11a]

Reactivation of sources.

If a source is taken out of operation for a period of one (1) year or more during the term of this operating permit, the permittee shall not thereafter resume operation of the respective source in a manner which is contrary to the requirements specified in 25 Pa. Code Section 127.11a.

031 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The expiration date shown in this permit is for State purposes. For Federal enforcement purposes the conditions of this operating permit which pertain to the implementation of RACT regulations shall remain in effect as part of the State Implementation Plan (SIP) until replaced pursuant to 40 CFR 51 and approved by the U.S. Environmental Protection Agency (EPA).

032 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) This operating permit incorporates Reasonably Available Control Technology (RACT) determinations, as required by the provisions of Title I of the Clean Air Act Amendments and Sections 129.91 through 129.95 of Chapter 129 of Article III of the Rules and Regulations of the Department of Environmental Protection, for the following air contamination sources:

Source P101 - 37.78 ton per hour Modern Equipment cupola

Source P183 - scrap and charge handling operations

Source P149 - twenty-five (25) shell and worm box core making machines

Source P179 - foundry sand handling equipment

Source P199 - three (3) automated (SPO) casting lines

Source P189 - two (2) natural gas/propane-fired emergency generators

Source P191 - fourteen (14) parts washers

Source 034 - eighteen natural gas/propane-fired air makeup units

Source 035 - one hundred & ninety-one (191) natural gas/propane-fired combustion units

033 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The greenhouse gas (GHG) emissions from this facility will be subject to regulation as that term is used in 40 CFR 70.2. As to the issuance date of this permit, no applicable requirements for GHG emissions exist.

034 [25 Pa. Code §129.14]

Open burning operations

No person may permit the open burning of material at this facility unless in accordance with 25 Pa. Code Section 129.14.

VIII. COMPLIANCE CERTIFICATION.

No additional compliance certifications exist except as provided in other sections of this permit including Section B (relating to Title V General Requirements).

IX. COMPLIANCE SCHEDULE.

No compliance milestones exist.

*** Permit Shield In Effect ***

SECTION D. Source Level Requirements

Source ID: 034

Source Name: 18 AIR MAKEUP UNITS

Source Capacity/Throughput:

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §123.11]****Combustion units**

No person may permit the emission into the outdoor atmosphere of particulate matter from the exhaust of the heaters of Source ID 034 which have a heat input of greater than 2.5 MMBTU/HR in excess of the rate of 0.4 pounds per million Btu of heat input in accordance with 25 Pa. Code Section 123.11(a)(1).

002 [25 Pa. Code §123.22]**Combustion units**

[Compliance with the requirement specified in this streamlined permit condition assures compliance with the provision in 40 CFR 52.2020(c)(1)]

No person may permit the emission into the outdoor atmosphere of sulfur oxides, expressed as SO₂, from the exhaust of Source ID 034 in excess of the rate of 4 pounds per million Btu of heat input over any 1-hour period in accordance with 25 Pa. Code Section 123.22(a)(1).

Fuel Restriction(s).**# 003 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Pursuant to the RACT provisions of Sections 129.91 through 129.95 of Chapter 129 of Article III of the Rules and Regulations of the Department of Environmental Protection, each source of Source ID 034 shall be fired only on natural gas or propane.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

SECTION D. Source Level Requirements

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VII. ADDITIONAL REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511.]

Source ID 034 consists of the following fourteen (14) natural gas/propane fired heating units (each located in Plant 1):

Description	Location	Make	Capacity
Air Makeup Unit	Above SPO1	Aerovent	5.0 MMBTU/hr
Air Makeup Unit	Above SPO2	Aerovent	5.0 MMBTU/hr
Air Makeup Unit	Sort Line 3	Aerovent	3.0 MMBTU/hr
Air Makeup Unit	Sort Line 1&2	Aerovent	3.0 MMBTU/hr
Air Makeup Unit	SPO 3 Mold Machine	Aerovent	2.75 MMBTU/hr
Air Makeup Unit	Foundry Ctr.	Aerovent	5.5 MMBTU/hr
Air Makeup Unit	Foundry East End	Aerovent	6.5 MMBTU/hr
Air Makeup Unit	Sort Line North	Aerovent	1.5 MMBTU/hr
Air Makeup Unit	Sort Line South	Aerovent	1.5 MMBTU/hr
Air Makeup Unit	Above #4 Oven	Aerovent	1.9 MMBTU/hr
Air Makeup Unit	Above #3 SPO	Aerovent	2.0 MMBTU/hr
Air Makeup Unit	Core Room Roof	Aerovent	3.0 MMBTU/hr
Air Makeup Unit	Core Room Roof	Aerovent	2.5 MMBTU/hr
Air Makeup Unit	Core Room Roof	Aerovent	5.0 MMBTU/hr
And 4 natural gas fired units located in Plant 3:			
Air Makeup Unit	Above Clusters 1&2	Aerovent	0.6 MMBTU/hr
Air Makeup Unit	Above Cluster 3	Aerovent	0.6 MMBTU/hr
Air Makeup Unit	Above Cluster 4	Aerovent	1.5 MMBTU/hr

**SECTION D. Source Level Requirements**

Air Makeup Unit	Above Cluster 5	Aerovent	0.6 MMBTU/hr
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*** Permit Shield in Effect. ***

SECTION D. Source Level Requirements

Source ID: 035

Source Name: COMBUSTION UNITS

Source Capacity/Throughput:

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §123.22]****Combustion units**

[Compliance with the requirement specified in this streamlined permit condition assures compliance with the provision in 40 CFR 52.2020(c)]

No person may permit the emission into the outdoor atmosphere of sulfur oxides, expressed as SO₂, from the exhaust of Source ID 035 in excess of the rate of 4 pounds per million Btu of heat input over any 1-hour period in accordance with 25 Pa. Code Section 123.22(a)(1).

Fuel Restriction(s).**# 002 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Pursuant to the RACT provisions of Sections 129.91 through 129.95 of Chapter 129 of Article III of the Rules and Regulations of the Department of Environmental Protection, each source of Source ID 035 shall be fired only on natural gas or propane.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

**SECTION D. Source Level Requirements****VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VII. ADDITIONAL REQUIREMENTS.**# 003 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

Source ID 035 consists of the following combustion units which have a rated heat input less than 2.5 MMBTU/HR, each.

(1) 81 natural gas/propane fired heating units located in Plant 1

(2) 2 natural gas/propane fired boilers located in Plant 1

(3) 35 natural gas/propane fired heating units located in Plant 2

(4) 73 natural gas fired/propane heating units located in Plant 3

(5) natural gas-fired burner (0.9 MMBtu/hr, heat input) for zinc recovery operation as described in RFD application
12/22/2010

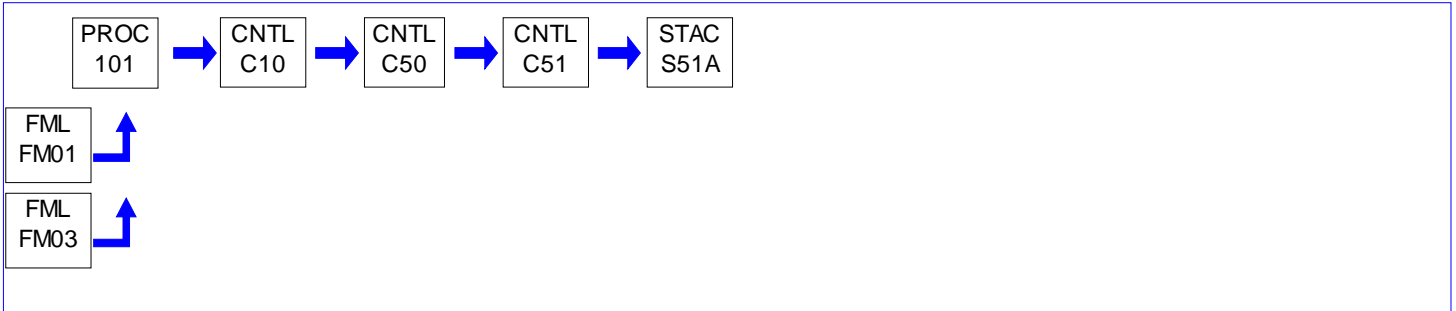
*** **Permit Shield in Effect.** ***

SECTION D. Source Level Requirements

Source ID: 101

Source Name: CUPOLA

Source Capacity/Throughput:



I. RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §123.21]

General

No person may permit the emission from any exhaust of Source ID 101 into the outdoor atmosphere in a manner that the concentration of the sulfur oxides (SOx), expressed as SO₂, in the effluent gas exceeds 500 parts per million, by volume, dry basis.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 CFR 63.7690(a)(2)]

[Compliance with this streamlined permit condition will also satisfy the requirements of 25 Pa. Code 123.13]

The permittee shall not allow the emission of particulate matter (PM) from the cupola in a manner that any exhaust to the atmosphere of Source ID P101 contains PM in excess of 0.006 gr/dscf.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 CFR 63.7690(a)(8)]

Pursuant to the RACT provisions of Sections 129.91 through 129.95 of Chapter 129 of Article III of the Rules and Regulations of the Department of Environmental Protection, the permittee shall not allow the emission of volatile organic hazardous air pollutants (VOHAP) from the cupola in a manner that any exhaust to the atmosphere of Source ID P101 contains VOHAP in excess of 20 parts per million by volume (ppmv) corrected to 10 percent oxygen.

Fuel Restriction(s).

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The two afterburners (ID C10) shall be fired only on natural gas or propane.

Throughput Restriction(s).

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Pursuant to the RACT provisions of Sections 129.91 through 129.95 of Chapter 129 of Article III of the Rules and Regulations of the Department of Environmental Protection, the melt rate of Source ID 101 for malleable and gray iron shall not exceed 37.78 tons per hour.

II. TESTING REQUIREMENTS.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code 129.91 and 40 CFR 63.7731(a) and 63.7732(a)]

SECTION D. Source Level Requirements

[Compliance with this streamlined permit condition will assure compliance with the provisions of 40 CFR 63.7743(a)(12)]

(a) No later than 5 years from the date of previous performance test, the permittee shall conduct performance tests to demonstrate compliance with the PM and VOHAP emission limitations listed above.

(b) The permittee shall comply with testing requirements specified in the provisions of 40 CFR 63.7(e)(1) in addition to the applicable provisions of 40 CFR 63.7732(b) through (h), relating to test methods.

(c) Testing shall be performed while Source ID 101 is operating at a minimum of 90% of its rated capacity.

(d) At least 60 days prior to the performance of any testing required by this condition, the permittee shall submit three copies of a pretest protocol to the Department for review. This protocol shall describe the test methods and procedures to be used in the performance of testing, as well as include dimensioned sketches of the exhaust system showing the location of all proposed sampling ports. The protocol shall also identify all process data which will be monitored and recorded during the testing, including the process data which will be used to verify the rate of production during testing.

(e) The Department shall be given at least 15 days advance notice of the actual date(s) and time(s) for the performance of any testing required by this condition so that Department personnel can arrange to be present. The Department is under no obligation to accept the results of any testing performed without adequate advance notice having been given to the Department.

III. MONITORING REQUIREMENTS.

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The fabric collector (Control Device ID C51) shall be equipped with instrumentation to continuously monitor the differential pressure across the collector.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The fabric collector (Control Device ID C51) shall be equipped with instrumentation to continuously monitor the temperature at the inlet of the collector.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 CFR 63.7710(b) and 40 CFR 63.7740(b)]

(a) The permittee shall install, operate, and maintain a bag leak detection system according the requirements in 40 CFR 63.7741(b)(1) through (7), and the preventative maintenance plan, the site-specific monitoring plan and the corrective action plan for C51.

(b) The permittee shall at all times monitor the relative change in PM loading using a bag leak detection system according to the requirements in 40 CFR 63.7741(b).

010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 CFR 63.7741(d)]

The permittee shall install, operate and maintain a continuous parameter monitoring system (CPMS) to monitor the combustion zone temperature of C10 according to the requirements in 40 CFR 63.7741(d)(1) through (8)

011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 CFR 63.7740(b)]

The permittee shall conduct the following inspections at their specified frequencies:

- (1) Monitor the pressure drop across each cell of C51 each day to ensure pressure drop is within the normal operating range identified in the manual
- (2) Monitor that dust is being removed from the hoppers of C51 through hopper level detectors
- (3) Check the compressed air supply for C51

SECTION D. Source Level Requirements

- (4) Monitor cleaning cycles to ensure proper operation using appropriate methodology
- (5) Check bag cleaning mechanisms for proper functioning through monthly visual inspection or equivalent means
- (6) Confirm the physical integrity of C51 through quarterly visual inspections of the baghouse interior for air leaks
- (7) Inspect fans for wear, material buildup, and corrosion through quarterly visual inspections, vibration detectors, or equivalent means

IV. RECORDKEEPING REQUIREMENTS.

012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a) Pursuant to the recordkeeping requirements of Section 129.95 of Chapter 129 of Article III of the Rules and Regulations of the Department of Environmental Protection, the permittee shall record the following;
 - (i) melt rate of Source ID 101 at least once per operating shift
 - (ii) the amount of iron poured from the cupola incorporated in Source P101 for each month

(b) The records required in item (a) shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep records of the following:

- (1) Such information as is necessary to demonstrate that compliance with the sulfur oxides emission limitations specified above under I. Restriction is being achieved.
- (2) The make up of each charge introduced into Source ID 101.

These records shall be retained for a minimum of five years and shall be made available to the Department upon request.

014 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 CFR 63.7741(b) and 63.7743(c)]

(a) At any time Source ID 101 is operating, the permittee shall continuously record the output of the relative particulate matter loadings from the bag leak detection systems of ID C51.

(b) All data used to comply with item (a) of this condition shall be meet requirements specified in the provisions of 40 CFR 63.7742, relating to collecting data.

(c) The permittee shall maintain accurate and comprehensive records to verify compliance with the maintenance and operational requirements for the bag leak detection systems listed below under VI. Work Practice Requirements and

(i) The times the bag leak detection system alarm sounded, and for each valid alarm, the time corrective action was initiated, description of corrective action taken, and the date on which corrective action was completed.

(d) All information needed to satisfy the requirements of this permit condition shall be kept for a period of 5 years and shall be made available to the Department upon request.

015 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 CFR 63.7743]

(a) The permittee shall maintain accurate and comprehensive records to verify compliance with the inspection requirements listed above under III. Monitoring Requirements for C51.

(b) All information needed to satisfy the requirements of this permit condition shall be kept for a period of 5 years and shall be made available to the Department upon request.

SECTION D. Source Level Requirements

016 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 CFR 63.7743]

(a) At any time Source ID 101 is operating, the permittee shall maintain accurate and comprehensive records to verify compliance with the minimum combustion zone temperature requirement listed below under VI. Work Practice Requirements for C10.

(b) All data used to comply with item (a) of this condition shall meet requirements specified in the provisions of 40 CFR 63.7742, relating to collecting data.

(c) All information needed to satisfy the requirements of this permit condition shall be kept for a period of 5 years and shall be made available to the Department upon request.

017 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 CFR 63.7743]

(a) The permittee shall maintain accurate and comprehensive records to verify compliance with the maintenance and operational requirements for CPMS listed below under VI. Work Practice Requirements.

(b) All information needed to satisfy the requirements of this permit condition shall be kept for a period of 5 years and shall be made available to the Department upon request.

018 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 CFR 63.7710(b)]

(a) The permittee shall keep the operation and maintenance plan for control device IDs C10 and C50 available to the Department for review upon request

(b) Each plan shall include preventative maintenance plan according to the requirements in 40 CFR 63.7710(b)(3)

019 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 CFR 63.7710(b)]

(a) The permittee shall keep the operation and maintenance plan for control device ID C51 available to the Department for review upon request

(b) The plan shall include;

(1) A preventative maintenance plan according to the requirements in 40 CFR 63.7710(b)(3)

(2) A site specific monitoring plan according to the requirements in 40 CFR 63.7710(b)(4) for the bag leak detection system

(3) Corrective action plan according to the requirements in 40 CFR 63.7710(b)(5)

V. REPORTING REQUIREMENTS.

020 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Within 60 days of completion of any testing required herein, three copies of a test report shall be submitted to the Department for review. The report shall contain the results of the testing, a description of the test methods and procedures actually used, copies of all raw data with sample calculations and copies of all process data recorded during testing.

VI. WORK PRACTICE REQUIREMENTS.

021 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall maintain on site a sufficient supply of spare fabric collector bags in order to immediately replace any collector bag(s) requiring replacement as a result of deterioration due to routine operation of the fabric collector (Control Device ID C51).

SECTION D. Source Level Requirements

022 [25 Pa. Code §127.441]

Operating permit terms and conditions.

EnviroBlend, or an equivalent (as determined by the Department) dry treatment additive, shall be injected into the cupola exhaust using the totally enclosed treatment system for a minimum of six (6) hours each day the cupola (Source ID 101) operates. This condition does not apply if a malfunction should occur whereby the fabric collector (Control Device ID C51) is rendered inoperable.

023 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 CFR 63.7690(b)(3)]

[Compliance with the requirements of this streamlined permit condition will assure compliance with the provision of 40 CFR 63.7743(e)(1)]

(a) Pursuant to the RACT provisions of Sections 129.91 through 129.95 of Chapter 129 of Article III of the Rules and Regulations of the Department of Environmental Protection, the combustion zone temperature of the Maxon burners (C10) shall not fall below 1300 degrees Fahrenheit (15-minute average).

(b) The periods when the cupola is off blast and for 15 minutes after going on blast from an off blast condition shall not be included in the 15-minute average.

024 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 CFR 63.7710(a)]

The permittee shall operate and maintain Source ID 101 including all associated control devices in a manner consistent with good air pollution control practices for minimizing emissions at least to the limitations herein, as required to the provisions 40 CFR 63.6(e)(1)(i).

025 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 CFR 63.7741(d) and 40 CFR 63.7741(f)]

The permittee shall operate and maintain the CPMS for C10 according to the requirements specified in the provisions of 40 CFR 63.7741(d)(1) through (8) and 40 CFR 63.7741(f)(1) through (3).

026 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 CFR 63.7741(b)]

The permittee shall operate and maintain the bag leak detection system for C51 according to the requirements specified in the provisions of 40 CFR 63.7741(b)(1) through (7).

027 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 CFR 63.7710(b)]

The permittee shall operate and maintain Source ID 101 including all associated control devices at all times according to the respective written operation and maintenance plans.

VII. ADDITIONAL REQUIREMENTS.

028 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The air compressor supplying compressed air to the fabric collector (Control Device ID C51) shall be equipped with an air dryer and an oil trap.

029 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) (Source ID 101) is a 37.78 ton per hour coke-fired, water-cooled Modern Equipment cupola.

SECTION D. Source Level Requirements

(b) Pursuant to the RACT provisions of Sections 129.91 through 129.95 of Chapter 129 of Article III of the Rules and Regulations of the Department of Environmental Protection, the air contaminant emissions from the cupola shall be controlled by an afterburner incorporating two (2) 5.2 million Btu per hour natural gas-fired Maxon burners (Control Device ID C10).

(c) The air contaminant emissions from the cupola shall be controlled by a seal cap and particulate matter drop-out box (Control Device ID C50), a recuperative hot blast heat exchanger, a dry gas cooler, a totally enclosed treatment system (TETS) and a GDM model 240-14-6WI pulse-jet fabric collector (Control Device ID C51).

(d) The burners incorporated in the afterburner may be replaced with burners of identical size and air contaminant emission potential (as determined by the Department) without the need for plan approval or a minor operating permit modification.

030 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

If a malfunction should occur whereby the fabric collector (Control Device ID C51) is rendered inoperable and the seal cap (Control Device ID C50) is opened to atmosphere, the afterburners (Control Device ID C10) shall continue to operate at all times the cupola (Source ID 101) is operating.

031 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

Source ID 101 is subject to the National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries. The permittee shall comply with all applicable requirements specified in the provisions of 40 CFR 63.7680 through 63.7765.

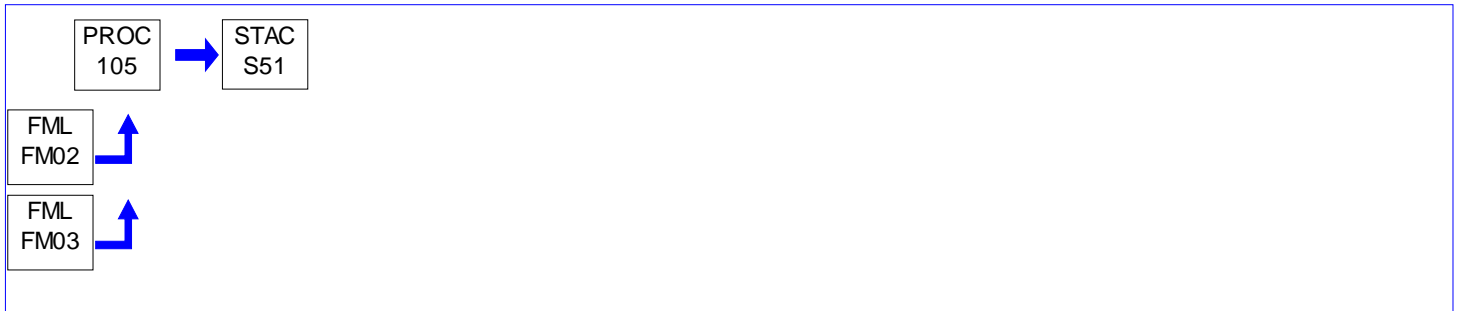
*** **Permit Shield in Effect.** ***

SECTION D. Source Level Requirements

Source ID: 105

Source Name: ANNEAL OVENS

Source Capacity/Throughput:

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §123.13]****Processes**

No person may permit the emission from the exhaust of each oven of Source ID 105 into the outdoor atmosphere particulate matter in excess of 0.04 grains per dry standard cubic foot.

002 [25 Pa. Code §123.21]**General**

No person may permit the emission from each oven of Source ID 105 into the outdoor atmosphere in a manner that the concentration of sulfur oxides (SO_x), expressed as SO₂, in the effluent gas is in excess of 500 parts per million, by volume, dry basis.

Fuel Restriction(s).**# 003 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

Each oven of Source ID 105 shall be fired only on natural gas or propane.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

IV. RECORDKEEPING REQUIREMENTS.**# 004 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

(a) The permittee shall maintain records of the following associated with Source ID 105:

Supporting calculations used to verify compliance with the particulate matter and sulfur oxide emission limitations.

(b) These records shall be retained for a minimum of five years and shall be made available to the Department upon

SECTION D. Source Level Requirements

request.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VII. ADDITIONAL REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

Source ID 105 consists of the following sources:

Four (4) General Electric model 158L614G1-2-3-4 natural gas-fired anneal ovens located in Plant 1 having a combined rated heat input of 12.25 MMBTU per hour. Source ID 105 is used to heat treat castings.

***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

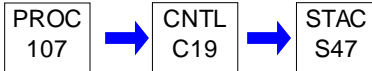
Source ID: 107

Source Name: 3 TUMBLAST MACHINES

Source Capacity/Throughput:

12.000 Tons/HR

CASTINGS



I. RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

(a) The permittee shall not permit the emission of particulate matter into the outdoor atmosphere from Source 107 in such a manner that the concentration of particulate matter in the effluent gas from Control Device C19 exceeds 0.01 grains per dry standard cubic foot whenever either or both of the 14 cubic foot, Rosler JMT #14 tumbler blast cleaning and peening machines are the only machines incorporated in Source 107 that are operating and being controlled by Control Device C19.

(b) At all other times the concentration of particulate matter in the effluent gas from Control Device C19 shall not exceed 0.04 grains per dry standard cubic foot.

(c) Compliance with this condition also ensures compliance with 25 Pa. Code Section 127.13.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

Control Device ID C19 shall be equipped with instrumentation to continuously monitor the pressure differential across the collector.

IV. RECORDKEEPING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

The permittee shall keep records of calculations used to verify compliance with the particulate emission limitation for Source ID 107.

These records shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

SECTION D. Source Level Requirements**VI. WORK PRACTICE REQUIREMENTS.****# 004 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The permittee shall keep on hand a sufficient quantity of spare fabric collector bags for Control Device ID C19 in order to be able to immediately replace any bags requiring replacement due to deterioration resulting from routine operation of Source ID 107 and Control Device ID C19.

005 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

An appropriate preventative maintenance schedule shall be posted and followed. It shall include daily pressure differential checks as well as frequent bag and baghouse inspections. Corrective action will be taken where appropriate.

VII. ADDITIONAL REQUIREMENTS.**# 006 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

Source 107 incorporates the following sources:

One (1) Wheelabrator Corporation Tumbleblast shot blaster located in Plant 1

Two (2) 14 cubic foot, Rosler JMT #14 tumbler blast cleaning and peening machines located in Plant 1

The air contaminant emissions from Source 107 shall be controlled by a Wheelabrator 1111TA model 120 fabric collector (Control Device C19).

***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

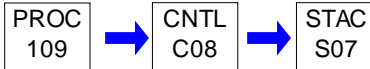
Source ID: 109

Source Name: 23 GRINDERS & SANDERS

Source Capacity/Throughput:

16.000 Tons/HR

CASTINGS



I. RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §123.13]

Processes

No person may permit the emission from any exhaust associated with Source ID 109 into the outdoor atmosphere particulate matter in excess of 0.04 grains per dry standard cubic foot.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Control Device ID C08 shall be equipped with instrumentation to monitor the pressure differential across the collectors. This instrumentation is to be maintained in operable condition at all times.

IV. RECORDKEEPING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

(a) The permittee shall keep records of calculations used to verify compliance with the particulate matter emission limitation for Source ID 109.

(b) These records shall be retained for a minimum of five years and shall be made available to the Department upon request.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep on hand a sufficient quantity of spare fabric collector bags for Control Device ID C08 in order to be able to immediately replace any bags requiring replacement due to deterioration resulting from routine operation of Source ID 109 and Control Device ID C08.

SECTION D. Source Level Requirements**# 005 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

An appropriate preventative maintenance schedule shall be posted and followed. It shall include daily pressure differential checks as well as frequent bag and baghouse inspections. Corrective action will be taken where appropriate.

VII. ADDITIONAL REQUIREMENTS.**# 006 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

Source ID 109 consists of the following sources located in Plant 1:

Eight (8) snag grinders, four (4) auto grinders, one (1) Gardner grinder, seven (7) salvage grinders and three (3) belt sanders.

The air contaminant emissions from Source ID 109 shall be controlled by a Wheelabrator 1715TA Model 120 fabric collector (Control Device ID C08).

*** **Permit Shield in Effect.** ***

SECTION D. Source Level Requirements

Source ID: 149

Source Name: CORE ROOM OPERATIONS

Source Capacity/Throughput: 400.000 Lbs/HR CORE BINDERS



I. RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §123.13]

Processes

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 123.13(b)(1) and 123.13(b)(2)]

(a) No person may permit the emission into the outdoor atmosphere of particulate matter from any exhaust associated with Source ID 149 in excess of the rate calculated by the formula in paragraph (b) or in a manner that the concentration of particulate matter in the effluent gas exceeds 0.02 grains per dry standard cubic foot, whichever is greater.

(b) $A = 0.76E^{(0.42)}$, where:

A = Allowable emissions in pounds per hour.

E = Emission index = F X W pounds per hour.

F = Process factor in pounds per unit = 20 (sand), and

W = Production or charging rate in units per hour.

002 [25 Pa. Code §123.21]

General

No person may permit the emission from any exhaust of Source ID 149 into the outdoor atmosphere in a manner that the concentration of sulfur oxides (SO_x), expressed as SO₂, in the effluent gas is in excess of 500 parts per million, by volume, dry basis.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Pursuant to the RACT provisions of Sections 129.91 through 129.95 of Chapter 129 of Article III of the Rules and Regulations of the Department of Environmental Protection, the total combined volatile organic compound emissions from the core making machines incorporated in Source P149 shall not exceed 145.32 tons in any 12 consecutive month period.

Fuel Restriction(s).

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

Pursuant to the RACT provisions of Sections 129.91 through 129.95 of Chapter 129 of Article III of the Rules and Regulations of the Department of Environmental Protection, each unit of Source ID 149 shall be fired only on natural gas or propane.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

SECTION D. Source Level Requirements

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

IV. RECORDKEEPING REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

The permittee shall keep records of calculations used to verify compliance with the particulate and sulfur oxide emission limitations for Source ID 149.

These records shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) Pursuant to the recordkeeping requirements of Section 129.95 of Chapter 129 of Article III of the Rules and Regulations of the Department of Environmental Protection, the company shall maintain comprehensive and accurate monthly records of calculations used to verify compliance with the 12 consecutive month volatile organic compound limitation for the core making machines incorporated in Source P149.

(b) The records required in item (a) shall be retained for at least 5 years and be made available to the Department upon request.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VII. ADDITIONAL REQUIREMENTS.

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID 149 consists of the following sources:

25 core room machines that each have a capacity between 60 and 320 cubic feet per hour of natural gas and are located in Plant 1.

*** Permit Shield in Effect. ***

SECTION D. Source Level Requirements

Source ID: 149A

Source Name: NEW CORE MACHINES

Source Capacity/Throughput:



I. RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §123.13]

Processes

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 123.13(b)(1) and 123.13(b)(2)]

(a) No person may permit the emission into the outdoor atmosphere of particulate matter from any exhaust associated with Source ID 149A in excess of the rate calculated by the formula in paragraph (b) or in a manner that the concentration of particulate matter in the effluent gas exceeds 0.02 grains per dry standard cubic foot, whichever is greater.

(b) $A = 0.76E^{(0.42)}$, where:

A = Allowable emissions in pounds per hour.

E = Emission index = F X W pounds per hour.

F = Process factor in pounds per unit = 20 (sand), and

W = Production or charging rate in units per hour.

002 [25 Pa. Code §123.21]

General

No person may permit the emission into the outdoor atmosphere of sulfur oxides from Source ID 149A in a manner that the concentration of the sulfur oxides, expressed as SO₂, in the effluent gas exceeds 500 parts per million, by volume, dry basis.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from the provisions of 25 Pa. Code 127.12(a)(8)]

(a) The permittee shall not allow the emission of air contaminant pollutants from the Harrison Model 1616DW Furan Warm Box Core Machine associated with Source ID 149A in excess of the following:

- (i) 1.71 tons in any 12 consecutive month period for volatile organic compounds
- (ii) 0.16 ton in any 12 consecutive month period for volatile hazardous air pollutants

(b) The permittee shall not allow the emission of air contaminant pollutants from the Harrison Model 2424DS Shell Core Machine associated with Source ID 149A in excess of the following:

- (i) 0.15 ton in any 12 consecutive month period for volatile organic compounds
- (ii) 0.05 ton in any 12 consecutive month period for volatile hazardous air pollutants

(c) The permittee shall not allow the emission of air contaminants from the EMI model 803-H Core Machine associated with Source ID 149A in excess of the following:

- (i) 2.59 tons in any 12 consecutive month period for volatile organic compounds
- (ii) 1.00 ton in any 12 consecutive month period for volatile hazardous air pollutants

(d) The permittee shall not allow the emission of air contaminants from the EMI model 803-H Core Machine associated with Source ID 149A in excess of the following:

- (i) 2.59 tons in any 12 consecutive month period for volatile organic compounds
- (ii) 1.00 ton in any 12 consecutive month period for volatile hazardous air pollutants

(e) The permittee shall not allow the emission of air contaminants from the two Osborne model 9A warm box core machines

SECTION D. Source Level Requirements

associated with Source ID 149A in excess of the following:

- (i) 2.59 tons in any 12 consecutive month period for volatile organic compounds
- (ii) 2.62 ton in any 12 consecutive month period for hazardous air pollutants
- (iii) 0.53 tons per 12 consecutive month period for nitrogen oxides (NO_x)
- (iv) 0.44 tons per 12 consecutive month period for carbon monoxide
- (v) 0.02 tons per 12 consecutive month period for PM₁₀
- (vi) 0.003 tons per 12 consecutive month period for sulfur oxides (SO_x)
- (vii) 9.13 tons per 12 consecutive month period for ammonia

Fuel Restriction(s).

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from the provisions of 25 Pa. Code 127.12(a)(8)]

The burners associated with Source ID 149A shall be only fired on natural gas.

Throughput Restriction(s).

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from the provisions of 25 Pa. Code 127.12(a)(8)]

(a) The permittee shall process no more than a combined total of 40.67 tons of resins and catalyst in any 12 consecutive month period through the Harrison Model 1616DW Furan Warm Box Core Machine associated with Source ID 149A.

(b) The permittee shall process no more than a total of 919.8 tons of premixed shell core sand in any 12 consecutive month period through the Harrison Model 2424DS Shell Core Machine associated with Source ID 149A.

(c) The permittee shall process no more than 15,708 tons of shell and warm box core sand in any 12 consecutive month period through the EMI model 803-H core machine associated with Source ID 149A.

(d) The permittee shall process no more than 408.41 tons per 12 consecutive month period of shell core binders and 249.76 tons per 12 consecutive month period of warm box core binders through the EMI model 803-H core machine associated with Source ID 149A.

(e) The permittee shall process no more than 15,708 tons of shell and warm box core sand in any 12 consecutive month period through the EMI model 803-H core machine associated with Source ID 149A.

(f) The permittee shall process no more than 408.41 tons per 12 consecutive month period of shell core binders and 249.76 tons per 12 consecutive month period of warm box core binders through the EMI model 803-H core machine associated with Source ID 149A.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

SECTION D. Source Level Requirements

IV. RECORDKEEPING REQUIREMENTS.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a) These records shall be used to demonstrate compliance with the volatile organic compound and volatile hazardous air pollutant emission limitations specified herein for each month.
- (b) The permittee shall maintain accurate and comprehensive monthly records of the following information for the core machines associated with Source ID 149A
- (i) total 12-consecutive month amount of resins and catalysts used in the Harrison Model 1616DW Furan Warm Box Core Machine
 - (ii) total 12-consecutive month amount of premixed shell core sand used in the Harrison Model 2424DS Shell Core Machine
 - (iii) total 12-consecutive month amount of combined shell and warm box core sand used in each of the two EMI model 803-H core machines
 - (iv) total 12-consecutive month amount of shell core binders used in each of the two EMI model 803-H core machines
 - (v) total 12-consecutive month amount of warm box binders used in each of the two EMI model 803-H core machines
- (c) All records generated pursuant to this condition shall be retained for at least five (5) years and shall be made available to the Department upon request.

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

The permittee shall keep records of calculations used to verify compliance with the particulate and sulfur oxide emission limitations for Source ID 149A.

With respect to the two Osborne model 9A warm box core machines, the permittee shall keep records of calculations used to verify compliance with the nitrogen oxides, carbon monoxide, PM10, sulfur oxides, volatile organic compounds, hazardous air pollutants and ammonia emissions limitations.

These records shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 CFR 63.7744.]

The permittee must keep records of the chemical composition of all catalyst binder formulations applied in each furan warm box mold or core making line operating under Source ID 149A to demonstrate continuous compliance with the requirements in §63.7700(d).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 CFR 63.7700(d).]

For each furan warm box mold or core making line operating under Source ID 149A, the permittee must use a binder chemical formulation that does not contain methanol as a specific ingredient of the catalyst formulation as determined by the Material Safety Data Sheet. This requirement does not apply to the resin portion of the binder system.

SECTION D. Source Level Requirements**VII. ADDITIONAL REQUIREMENTS.****# 010 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Source ID 149A consists of the following:

- (a) Harrison Model 1616DW Furan Warm Box Core Machine equipped with natural gas-fired burners with a combined rate of 12 scfh, as specified in RFD application dated June 3, 2010
- (b) Harrison Model 2424DS Shell Core Machine equipped with natural gas-fired burners with a combined rate of 16 scfh, as specified in RFD application dated January 11, 2011
- (c) EMI model 803-H core machine, as specified in RFD application dated September 10, 2012
- (d) EMI model 803-H core machine, as specified in RFD application dated May 23, 2013
- (e) two Osborne model 9A warm box core machines, as specified in RFD application dated December 30, 2013

011 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 40 CFR 63.7681.]

Source ID 149A is subject to the requirements of the National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries pursuant to 40 CFR Part 63 Subpart EEEEE, Sections 63.7680 through 63.7765. The permittee shall comply with all applicable requirements of 40 CFR Part 63 Subpart EEEEE.

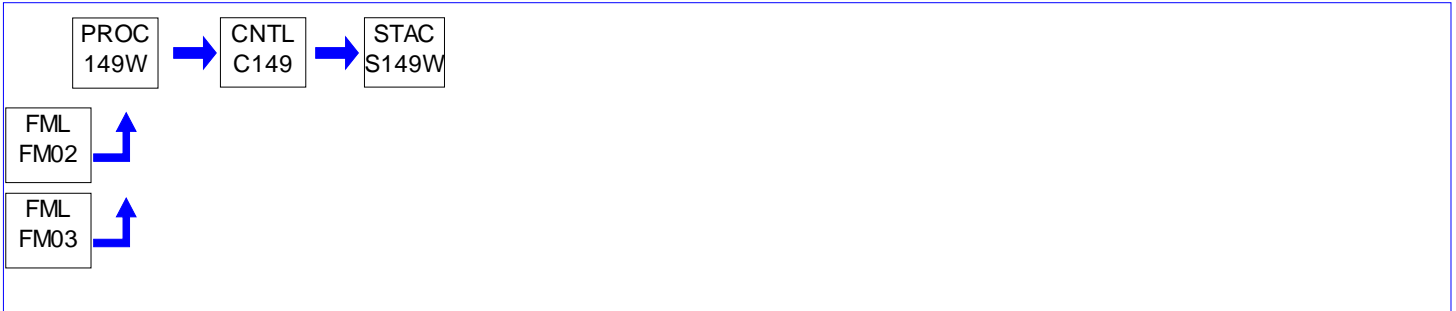
***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 149W

Source Name: FURAN WARM BOX CORE MACHINE

Source Capacity/Throughput:



I. RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §123.21]

General

No person may permit the emission into the outdoor atmosphere of sulfur oxides from Source ID 149W in a manner that the concentration of the sulfur oxides, expressed as SO₂, in the effluent gas exceeds 500 parts per million, by volume, on a dry basis.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

(a) The emission of nitrogen oxides (NO_x expressed as NO₂) from Source ID 149W shall not exceed 1.10 tons in any 12 consecutive month period.

(b) The emission of carbon monoxide (CO) from Source ID 149W shall not exceed 0.23 tons in any 12 consecutive month period.

(c) The total combined particulate matter emissions from Source ID 149W shall not exceed 3.0 tons in any 12 consecutive month period.

(d) The total combined volatile organic compound (VOC) emissions from Source ID 149W shall not exceed 15.57 tons in any 12 consecutive month period.

(e) The total combined hazardous air pollutant (HAP) emissions from Source ID 149W shall not exceed 1.0 tons in any 12 consecutive month period.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12][Compliance with the streamlined permit condition assures compliance with 25 Pa. Code Section 123.13]

The particulate matter concentration in the exhausts of Control Device ID C149 and the core machine exhaust system shall not exceed 0.01 grains per dry standard cubic foot.

Fuel Restriction(s).

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

Source ID 149W shall only be fired on natural gas or propane.

SECTION D. Source Level Requirements

Throughput Restriction(s).

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The combined total amount of resin and catalyst to be used by Source ID 149W shall not exceed 80 tons in any 12 consecutive month period.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

IV. RECORDKEEPING REQUIREMENTS.

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code Section 127.511]

The permittee shall maintain comprehensive and accurate records of the amount of each resin and catalyst used by Source ID 149W each month to verify compliance with the resin and catalyst 12 consecutive month usage limitation. All such records shall be retained for a minimum of five years and shall be made available to the Department upon request.

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code Section 127.511]

The permittee shall maintain comprehensive and accurate records which verify compliance with the 12 consecutive month emission limitations for nitrogen oxides, carbon monoxide, total particulate matter, volatile organic compounds, and hazardous air pollutants for Source ID 149W. All such records shall be retained for a minimum of five years and shall be made available to the Department upon request.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 40 CFR 63.7744.]

The permittee must keep records of the chemical composition of all catalyst binder formulations applied in each furan warm box mold or core making line operating under Source ID 149W to demonstrate continuous compliance with the requirements in §63.7700(d).

V. REPORTING REQUIREMENTS.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code Section 127.511]

(a) The permittee shall submit an annual report to the Department containing the NO_x, CO, particulate, and HAP emissions for each month of the previous 12 consecutive month period for Source ID 149W which verifies compliance with the emissions limitations for those pollutants. This annual report shall also contain the amount of resin and catalyst used in Source ID 149W each month of the previous 12 consecutive month period which verifies compliance with the 12 consecutive month limitation.

SECTION D. Source Level Requirements

- (b) The permittee shall submit a semi-annual report to the Department containing the VOC emissions for each month of the previous 12 consecutive month period which verifies compliance with the 12 consecutive month emission limitation for VOCs.
- (c) The annual report shall be submitted to the Department no later than March 1 for the period January 1 through December 31.
- (d) The semi-annual report shall be submitted to the Department no later than September 1 each year for the period July 1 through June 30 and no later than March 1 for the period January 1 through December 31.

VI. WORK PRACTICE REQUIREMENTS.

010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 40 CFR 63.7700(d).]

For each furan warm box mold or core making line operating under Source ID 149W, the permittee must use a binder chemical formulation that does not contain methanol as a specific ingredient of the catalyst formulation as determined by the Material Safety Data Sheet. This requirement does not apply to the resin portion of the binder system.

VII. ADDITIONAL REQUIREMENTS.

011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

(a) Source ID 149W is a custom designed Foundry Automation model # SPH40/2 automatic warm box core making machine equipped with 52 natural gas fired burners with a combined rated heat input of 2.5 MMBTU/hr. The air contaminant emissions from Source ID 149W shall be controlled by a Whirl-Air Flow model 17-30 bin vent fabric collector (ID C149).

(b) The collection point of ID C149 shall be located at the discharge of the sand feed chute to the hopper.

012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

Only the resins and catalysts identified in plan approval application 59-00004B and supplemental information submitted to the Department shall be used in Source ID 149W unless prior written approval is received from the Department.

Binder WB950, as identified in the November 14, 2014, Minor Operating Permit Modification Application, is approved for use in Source ID 149W.

013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The SPO II fabric collector (ID C06) shall control the fugitive particulate emissions from the core sand silo.

014 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 40 CFR 63.7681.]

Source ID 149W is subject to the requirements of the National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries pursuant to 40 CFR Part 63 Subpart EEEEE, Sections 63.7680 through 63.7765. The permittee shall comply with all applicable requirements of 40 CFR Part 63 Subpart EEEEE.

*** Permit Shield in Effect. ***

SECTION D. Source Level Requirements

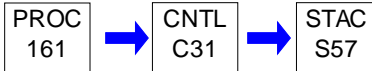
Source ID: 161

Source Name: DIP TANK & PARTS SPINNER

Source Capacity/Throughput:

3.000 Tons/HR

CASTINGS



I. RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §123.13]

Processes

No person may permit the emission from any exhaust associated with Source ID 161 into the outdoor atmosphere particulate matter in excess of 0.04 grains per dry standard cubic foot.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Control Device ID C31 shall be equipped with instrumentation to monitor the pressure differential across the collector on a continuous basis. This instrumentation is to be maintained in operable condition at all times.

IV. RECORDKEEPING REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code 127.511]

The permittee shall keep records of calculations used to verify compliance with the particulate emission limitation for Source ID 161.

These records shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

The permittee shall keep on hand a sufficient quantity of spare fabric collector bags for Control Device ID C31 in order to be able to immediately replace any bags requiring replacement due to deterioration resulting from routine operation of Source ID 161 and Control Device ID C31.

SECTION D. Source Level Requirements**VII. ADDITIONAL REQUIREMENTS.****# 005 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

a) Source ID 161 consists of the following sources located in Plant 3:

(1) One custom-designed galvanizing dip tank and a Barrett model 402-6 parts spinner.

(2) Salt water dip tanks

(3) Electric drying oven

b) The air contaminant emissions from Source ID 161 shall be controlled by a Wheelabrator 3917TA model 120 fabric collector (Control Device ID C31).

***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

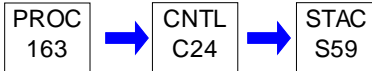
Source ID: 163

Source Name: 5 TUMBLAST MACHINES

Source Capacity/Throughput:

25.000 Tons/HR

CASTINGS

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12. Compliance with this condition also ensures compliance with 25 Pa. Code Section 127.13.]

The permittee shall not permit the emission of particulate matter into the outdoor atmosphere from Source 163 in a manner such that the concentration of particulate matter in the effluent gas from Control Device C24 exceeds 0.01 grains per dry standard cubic foot whenever the 14 cubic foot, Rosler JMT #14 tumblast cleaning machine and/or the Metcast model M-14D shot blast machine is/are the only machine(s) incorporated in Source ID 163 that is/are operating and being controlled by Control Device ID C24. At all other times the concentration of particulate matter in the effluent gas from Control Device ID C24 shall not exceed 0.04 grains per dry standard cubic foot.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.**# 002 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

Control Device ID C24 shall be equipped with instrumentation to monitor the pressure differential across the collector on a continuous basis. This instrumentation is to be maintained in operable condition at all times.

003 [40 CFR Part 64 Compliance Assurance Monitoring for Major Stationary Sources §40 CFR 64.3]**Sections of PART 64****Monitoring design criteria**

(a) The permittee shall continuously monitor the pressure drop across control device C24 by use of the Photohelic gauge installed on control device C24.

(b) The permittee shall use the pressure drop across control device C24 to monitor the performance of the control device.

IV. RECORDKEEPING REQUIREMENTS.**# 004 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall keep records of calculations used to verify compliance with the particulate emission limitation for Source ID 163. These records shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

005 [40 CFR Part 64 Compliance Assurance Monitoring for Major Stationary Sources §40 CFR 64.9]**Sections of PART 64****Reporting and recordkeeping requirements**

(a) The permittee shall record the pressure drop across C24 on a daily basis whenever any of the sources identified under Source ID 163 are operating.

SECTION D. Source Level Requirements

- (b) The permittee shall record all excursions and corrective actions taken in response to an excursion and the time elapsed until the corrective action has been taken.
- (c) The permittee shall record all inspections, repairs and maintenance performed on the Photohelic gauge used to monitor the pressure drop across control device C24.
- (d) The permittee shall maintain records of all monitoring downtime incidents. The permittee shall also record the dates, times, durations, possible causes and corrective actions taken for the incidents.
- (e) The permittee shall keep all records for a period of five (5) years and make the records available to the Department upon request.

V. REPORTING REQUIREMENTS.

006 [40 CFR Part 64 Compliance Assurance Monitoring for Major Stationary Sources §40 CFR 64.9] Sections of PART 64 Reporting and recordkeeping requirements

- (a) The permittee shall report all excursions and corrective actions taken, their dates, times, durations and possible causes on a semiannual basis.
- (b) The permittee shall report all monitoring downtime incidents (other than those associated with calibration checks) their dates, times, durations, and possible causes on a semiannual basis.
- (c) Semiannual reports shall be submitted to the Department by March 1 (for the 6-month period from July to December of the previous year) and September 1 (for the 6-month period from January to June of the concurrent year).

VI. WORK PRACTICE REQUIREMENTS.

007 [25 Pa. Code §127.441] Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The permittee shall keep on hand a sufficient quantity of spare cartridges for Control Device ID C24 in order to be able to immediately replace any cartridges requiring replacement due to deterioration resulting from routine operation of Source ID 163 and Control Device ID C24.

008 [40 CFR Part 64 Compliance Assurance Monitoring for Major Stationary Sources §40 CFR 64.6] Sections of PART 64 Approval of monitoring

- (a) The permittee shall adhere to a range of 1 inch to 9 inches of water column for the pressure drop across C24 so that operation within this range shall provide a reasonable assurance of compliance. A departure from the specified range at any time shall be defined as an excursion.
- (b) The permittee shall calibrate and check the accuracy of the Photohelic gauge taking into account manufacturer's specifications at least annually.
- (d) The permittee shall maintain all monitoring equipment and stock parts necessary for routine repairs onsite.

009 [40 CFR Part 64 Compliance Assurance Monitoring for Major Stationary Sources §40 CFR 64.7] Sections of PART 64 Operation of approved monitoring

Should an excursion occur the permittee shall do the following:

- (a) The employee who observed the excursion shall immediately report the excursion to the shift supervisor.
- (b) The shift supervisor shall, as expeditiously as possible, troubleshoot the cause of the excursion and shall take corrective action to restore normal operation of the Photohelic gauge and/or control device C24 in accordance with good air pollution control practices for minimizing emissions.

VII. ADDITIONAL REQUIREMENTS.

010 [25 Pa. Code §127.441] Operating permit terms and conditions.

Source ID 163 is comprised of the following sources located in Plant 3:

SECTION D. Source Level Requirements

Three (3) Wheelabrator model #14 tumblast machines.

One (1) 14 cubic foot, Rosler JMT #14 tumblast cleaning machine.

One (1) Metcast model M-14D iron castings shot blast machine.

The air contaminant emissions from Source ID 163 shall be controlled by a Farr Tenkay model 32D cartridge collector (Control Device ID C24).

011 [40 CFR Part 64 Compliance Assurance Monitoring for Major Stationary Sources §40 CFR 64.8]

Sections of PART 64

Quality improvement plan (QIP) requirements

(a) The permittee shall develop and implement a Quality Improvement Plan (QIP) as expeditiously as practicable if any of the following occur:

- (1) Six (6) excursions occur in a six (6) month reporting period.
- (2) The Department determines after review of all reported information that the permittee has not responded acceptably to an excursion.

(b) The QIP should be developed within 60 days and the permittee shall provide a copy of the QIP to the Department.

Furthermore, the permittee shall notify the Department if the period for completing the improvements contained in the QIP exceeds 180 days from the date on which the need to implement the QIP was determined.

(c) The permittee shall record actions taken to implement a QIP during a reporting period and all related actions including, but not limited to, inspections, repairs, and maintenance performed on the Photohelic gauge.

(d) The QIP shall include procedures for evaluating the control performance problems. Based on the results of the evaluation procedures, the permittee shall modify the QIP and provide the Department with a copy, to include procedures for conducting more frequent, or improved, monitoring in conjunction with one or more of the following:

- (1) Improved preventive maintenance practices,
- (2) Process operation changes,
- (3) Appropriate improvements to the control methods,
- (4) Other steps appropriate to correct performance.

(e) Following implementation of a QIP, the Department will require reasonable revisions to the QIP if the plan has failed to either:

- (1) Address the cause of the performance problems of the Photohelic gauge.
- (2) Provide adequate procedures for correcting the performance problems of the device(s) in an expeditious manner and according to good air pollution control practices.

(f) Implementation of a QIP shall not excuse the permittee from compliance with any existing emission limitation or standard or any existing monitoring, testing, reporting or recordkeeping requirements that may apply under any federal, state, or local law.

*** Permit Shield in Effect. ***

SECTION D. Source Level Requirements

Source ID: 173

Source Name: MOLDING & CASTING OPERATIONS

Source Capacity/Throughput:



I. RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12][Compliance with the requirement specified in this streamlined permit condition assures compliance with the provision in 25 Pa. Code Section 123.13]

The exhaust of Control Device ID C23 shall not contain particulate matter in excess of 0.01 grains per dry standard cubic foot, and shall additionally exhibit no visible emissions.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code Section 127.1 and 127.12]

The total combined volatile organic compound (VOC) emissions from the equipment of the three SPO molding lines that are controlled by Control Devices IDs C05, C06, and C07 (the SPO baghouses) associated with Source ID 199, and the equipment of Source ID 173 that are controlled by Control Device ID C23 (the Wheelabrator baghouse associated with Source ID 173) shall not exceed the following rates:

1) 55.3 pounds per hour

2) 165.9 tons per year.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from the provisions of 25 Pa. Code 123.21]

The permittee may not permit the emission into the outdoor atmosphere of sulfur oxides from Control Device ID C23 in a manner that the concentration of the sulfur oxides, expressed as SO₂, in the effluent gas exceeds 500 parts per million, by volume, dry basis.

II. TESTING REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) Pursuant to the compliance assurance monitoring requirements of 40 CFR Sections 64.4 and 64.6, within 120 days from the issuance date of this operating permit, the permittee shall perform stack testing at the exhaust points (ID S173) to demonstrate compliance with the particulate matter limitations and simultaneously obtain data that represents the pressure drop across each compartment of ID C23 from the manometer (or equivalent as approved by the Department). Based upon the stack test data, the permittee shall establish the compliance assurance monitoring (CAM) ranges for compartment pressure differentials of ID C23 which will reasonably assure compliance with the particulate matter emissions limitation of Source ID 173. Stack testing shall be performed in accordance with the applicable provisions of 25 Pa. Code Chapter 139 (relating to sampling and testing) using test methods and procedures approved by the Department. Testing shall be performed when the source is operating at maximum routine operating conditions and any other operating conditions which are routine.

(b) At least 60 days prior to the required stack testing, the permittee shall submit two (2) copies of a test protocol to the Department for review and approval. This protocol shall describe the test methods and procedures to be used in the performance of testing, and shall include dimensioned sketches of the exhaust systems showing the locations of all

SECTION D. Source Level Requirements

proposed sampling ports. The protocol shall also identify all process parameters, which will be monitored and recorded during testing to indicate maximum routine operation.

(c) At least 15 days prior to stack testing, the permittee shall notify the Department of the actual date(s) and time(s) that testing will occur so that Department personnel can arrange to be present during testing. The Department is under no obligation to accept the results of the testing without having been given proper notification.

(d) Within 60 days following the completion of the stack testing, the permittee shall submit two (2) copies of a test report to the Department for review and approval. The test report shall contain the results of the testing, proposed CAM ranges for pressure differential, a description of the test methods and procedures actually used, copies of all raw test data with sample calculations and copies of all process data recorded during testing. The results of the testing shall be expressed in units identical to the units of the limitations identified in this operating permit.

(e) Testing is required for the establishment of CAM indicator ranges (as approved by the Department) for pressure differential which reasonably assure compliance with the particulate matter emissions limitation applicable to Source ID 173.

III. MONITORING REQUIREMENTS.**# 005 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Control Device ID C23 shall be equipped with properly functioning gauges (or equivalent instrumentation) which allow the pressure differential across the tubesheet of each individual compartment to be continually monitored.

IV. RECORDKEEPING REQUIREMENTS.**# 006 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

(a) The permittee shall keep records of the following:

(1) Such information as is necessary to demonstrate that compliance with the particulate matter emission limitation applicable herein to Control Device ID C23 is being achieved.

(2) Such information as is necessary to demonstrate that compliance with the sulfur oxides emission limitation applicable herein to Control Device ID C23 is being achieved.

(3) Such information as is necessary to demonstrate that compliance with the combined VOC emission limitations applicable herein to Source IDs 173 and 199 is being achieved.

(b) These records shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

007 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 40 CFR Sections 64.3 and 64.7]

Except as noted in 40 CFR Section 64.7(c), the permittee shall monitor data relating to pressure differentials of ID C23 at all times during operation and record the pressure differentials of ID C23 at least once per operating shift.

V. REPORTING REQUIREMENTS.**# 008 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Pursuant to the compliance assurance monitoring requirements of 40 CFR Sections 64.6 and 64.9, the permittee shall submit the following reports on a semiannual basis;

(1) summary information on the duration and cause (including unknown cause, if applicable) of excursions of the CAM

SECTION D. Source Level Requirements

indicators and corrective actions taken, and
(2) summary information on the duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with calibration checks).

Semiannual reports shall be submitted to the Department by March 1 (for the 6-month period from July to December of the previous year) and September 1 (for the 6-month period from January to June of the concurrent year).

VI. WORK PRACTICE REQUIREMENTS.**# 009 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Pursuant to the compliance assurance monitoring requirements of 40 CFR Section 64.6, the manometer (or equivalent as approved by the Department) shall be calibrated, maintained, and operated in accordance with the following.

- 1) Weekly inspections to assure each pressure differential monitoring device zeros
- 2) Weekly inspections of the device for proper monitoring and functionality
- 3) Manufacturer suggested calibrations

010 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

Upon detecting an excursion from the Department-approved pressure differential ranges, the permittee shall restore operation of Source ID 173 (including ID C23) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of the excursion.

011 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

Pursuant to the compliance assurance monitoring requirements of 40 CFR Section 64.6, the permittee shall conduct the monitoring and fulfill the other obligations (i.e., proper monitor maintenance, corrective actions, etc.) specified in 40 CFR Section 64.7.

012 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The permittee shall keep on hand a sufficient quantity of spare fabric collector bags for Control Device ID C23 in order to be able to immediately replace any bags requiring replacement due to deterioration resulting from routine operation of all sources of Source ID 173 and Control Device ID C23.

013 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The air compressor(s) used to supply compressed air to Control Device ID C23 shall be equipped with an air dryer and oil trap.

VII. ADDITIONAL REQUIREMENTS.**# 014 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Source ID 173 is subject to the monitoring requirements specified in the provisions of 40 CFR Part 64 (Compliance Assurance Monitoring (CAM)). The permittee shall comply with the requirements specified in 40 CFR Sections 64.1 through 64.10.

015 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 40 CFR Section 64.8]

SECTION D. Source Level Requirements

- (a) The permittee shall develop and implement a Quality Improvement Plan (QIP) as expeditiously as practicable if any of the following occur:
- (1) Six (6) excursions occur in a six (6) month reporting period.
 - (2) The Department determines after review of all reported information that the permittee has not responded acceptably to an excursion.
- (b) The QIP should be developed within 60 days and the permittee shall provide a copy of the QIP to the Department. Furthermore, the permittee shall notify the Department if the period for completing the improvements contained in the QIP exceeds 180 days from the date on which the need to implement the QIP was determined.
- (c) The permittee shall record actions taken to implement a QIP during a reporting period and all related actions including, but not limited to, inspections, repairs, and maintenance performed on the C23 associated with Source ID 173.
- (d) In accordance with 40 CFR Section 64.8, the QIP shall include procedures for evaluating the control performance problems. Based on the results of the evaluation procedures, the permittee shall modify the QIP and provide the Department with a copy, to include procedures for conducting more frequent, or improved, monitoring in conjunction with one or more of the following:
- (1) Improved preventive maintenance practices,
 - (2) Process operation changes,
 - (3) Appropriate improvements to the control methods,
 - (4) Other steps appropriate to correct performance.
- (e) Following implementation of a QIP, the Department will require reasonable revisions to the QIP if the plan has failed to either:
- (1) Address the cause of the performance problems of the ID C23 associated with Source ID 173.
 - (2) Provide adequate procedures for correcting the performance problems of the ID C23 associated with Source ID 173 in as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.
- (f) Implementation of a QIP shall not excuse the permittee from compliance with any existing emission limitation or standard or any existing monitoring, testing, reporting or recordkeeping requirements that may apply under any federal, state, or local laws or any other applicable requirements under the Clean Air Act.

016 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1, 127.12, and 127.511]

- (a) Source ID 173, located in Plant 1, consists of the following molding and casting operations:

- (1) three (3) vibratory casting sort conveyors
- (2) Didion sand discharge to sand return belt
- (3) one (1) "Hex Screen" rotary sand separator
- (4) 220 linear feet of sand conveyor leading to and from the "Hex Screen" rotary sand separator
- (5) one (1) bond dump station
- (6) one (1) Beardsley & Piper muller
- (7) one (1) National Engineering cupola bottom sand muller
- (8) one (1) Hauck PBG 1000, natural gas-fired burner with a heat input capacity equal to 1.29 MMBtu/hr

- (b) The air contaminant emissions from Source ID 173 shall be controlled by a five-compartment Wheelabrator Jet III model #1715 pulse-jet fabric collector (Control Device ID C23). Item (8) above was installed to raise the dew point of the air

SECTION D. Source Level Requirements

stream being drawn from collection points associated with Source ID 173, as approved in the minor significance determination made by the Department on September 15, 2005.

017 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

Control Device ID C23 shall be equipped with an Auburn Triboguard broken bag detection system, or equivalent, incorporating separate sensors in the outlet of each compartment. This system shall be configured in such a way that when any problem is detected, an alarm (audible or visual) is triggered in a frequently-staffed location.

***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 181

Source Name: PLANT 1 EVAPORATOR

Source Capacity/Throughput:

**I. RESTRICTIONS.****Emission Restriction(s).**

001 [25 Pa. Code §123.21]

General

No person may permit the emission from Source ID 181 into the outdoor atmosphere in a manner that the concentration of sulfur oxides (SOx), expressed as SO₂, in the effluent gas is in excess of 500 parts per million, by volume, dry basis.

Fuel Restriction(s).

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

Source ID 181 shall be fired only on natural gas or propane.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VII. ADDITIONAL REQUIREMENTS.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

**SECTION D. Source Level Requirements**

Source ID 181 consists of a 395,000 BTU per hour natural gas / propane fired Samsco Manufacturing model 600 wastewater evaporator and this evaporator is located in Plant 1

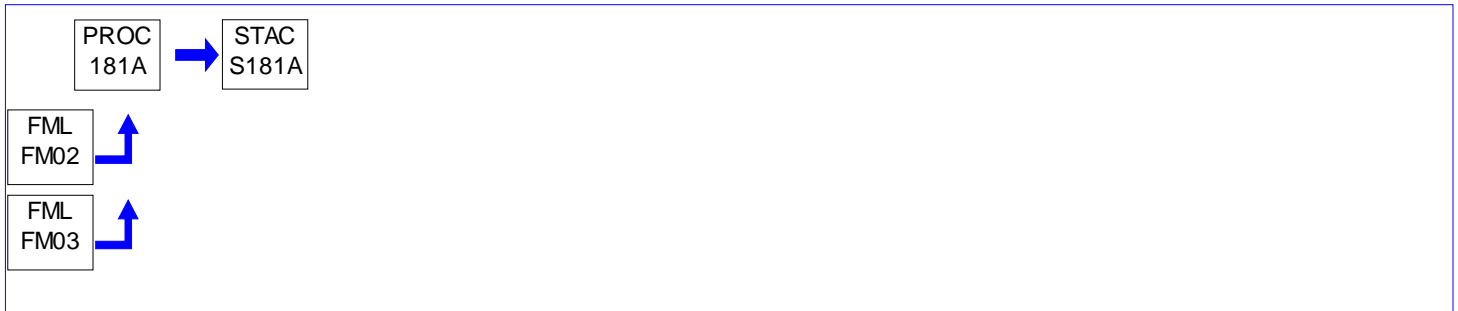
***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 181A

Source Name: WASTEWATER EVAPORATOR

Source Capacity/Throughput:

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §123.22]****Combustion units**

The permittee shall not permit the emission of sulfur oxides, expressed as sulfur dioxide (SO₂), into the outdoor atmosphere from Source 181A in excess of the rate of 4 pounds per million Btu of heat input over any 1-hour period.

002 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

The total combined emission of volatile organic compounds from Source 181A shall not exceed 1.75 tons in any 12 consecutive month period.

Fuel Restriction(s).**# 003 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

Source 181A shall only be fired on natural gas or propane.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.**# 004 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

Source 181A shall be equipped with the following alarms/interlocks that shut down the source when activated.

- (a) High fluid level
- (b) Low fluid level
- (c) High bath temperature at 220 degrees Fahrenheit
- (d) High flue temperature at 600 degrees Fahrenheit
- (e) High heat exchanger temperature at 230 degrees Fahrenheit

SECTION D. Source Level Requirements**IV. RECORDKEEPING REQUIREMENTS.****# 005 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

The permittee shall maintain accurate and comprehensive records of the following:

- (a) The type, quantity and volatile organic compound content of each fluid processed in Source 181A each month.
- (b) The calculations used to determine the volatile organic compound emissions from Source 181A each month for the previous 12 month period.

All records generated pursuant to this condition shall be retained on site for a minimum of five (5) years and shall be made available to the Department upon request.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.**# 006 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

Source 181A shall not be used to process wastewater containing hazardous air pollutants.

VII. ADDITIONAL REQUIREMENTS.**# 007 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

Source 181A is a 395,000 Btu per hour natural gas/propane-fired Samsco model 600 wastewater evaporator located at Plant 3.

008 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Sections 127.1 and 127.12]

Source 181A shall be equipped with a mist eliminator.

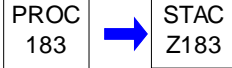
***** Permit Shield in Effect. *****

**SECTION D. Source Level Requirements**

Source ID: 183

Source Name: SCRAP & CHARGE HANDLING OPERATIONS

Source Capacity/Throughput:

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.**# 001 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) Pursuant to the RACT provisions of Sections 129.91 through 129.95 of Chapter 129 of Article III of the Rules and Regulations of the Department of Environmental Protection, the scrap and charge handling operation incorporated in Source P183 shall comply with the certification requirements in subsection (c) of this condition, or prepare and implement a plan for the selection and inspection of scrap according to the requirements in subsection (d) of this condition.

(b) The permittee may have certain scrap subject to subsection (c) of this condition and other scrap subject to subsection (d) of this condition at the facility provided the scrap remains segregated until charge make-up.

(c) The permittee shall prepare and operate at all times according to a written certification that the foundry purchases and uses only metal ingots, pig iron, slitter, or other materials that do not include post-consumer automotive body scrap, post-consumer engine blocks, post-consumer oil filters, oily turnings, plastics, or free organic liquids. For the purpose of this condition, "free organic liquids" is defined as material that fails the paint filter test by EPA Method 9095A, "Paint Filter Liquids Test" (Revision 1, December 1996), as published in EPA Publication SW-846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods" (incorporated by reference see 40 CFR Section 63.14). Any post-consumer engine blocks, post-consumer oil filters, or oily turnings that are processed and/or cleaned to the extent practicable such that the materials do not include chlorinated plastics or free organic liquids can be included in this certification.

(d) The permittee shall prepare and operate at all times according to a written plan for the selection and inspection of iron and steel scrap to minimize, to the extent practicable, the amount of organics in the charge materials used by the iron and steel foundry.

(1) This scrap selection and inspection plan is subject to approval by the Administrator.

SECTION D. Source Level Requirements

(2) The permittee shall keep a copy of the plan onsite and readily available to all plant personnel with materials acquisition or inspection duties.

(3) The permittee shall provide a copy of the material specifications to each of your scrap vendors. (4) Each plan shall include the information specified in paragraphs (c)(1) through (3) of 40 CFR Section 63.7700.

VII. ADDITIONAL REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

Source ID 183 consists of scrap metal and charge dumping areas located at Plant 1.

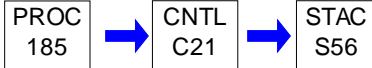
***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 185

Source Name: BOND SILO

Source Capacity/Throughput:

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §123.13]
Processes**

No person may permit the emission from any exhaust associated with Source ID 185 into the outdoor atmosphere particulate matter in excess of 0.04 grains per dry standard cubic foot.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

IV. RECORDKEEPING REQUIREMENTS.**# 002 [25 Pa. Code §127.441]
Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

The permittee shall keep records of calculations used to verify compliance with the particulate emission limitation for Source ID 185.

These records shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VII. ADDITIONAL REQUIREMENTS.**# 003 [25 Pa. Code §127.441]
Operating permit terms and conditions.**

(a) Source ID 185 is a bond bulk storage silo located at Plant 1.

(b) The air contaminant emissions from Source ID 185 shall be controlled by a Mikro-Pul bin vent and filter (Control Device

**SECTION D. Source Level Requirements**

ID C21).

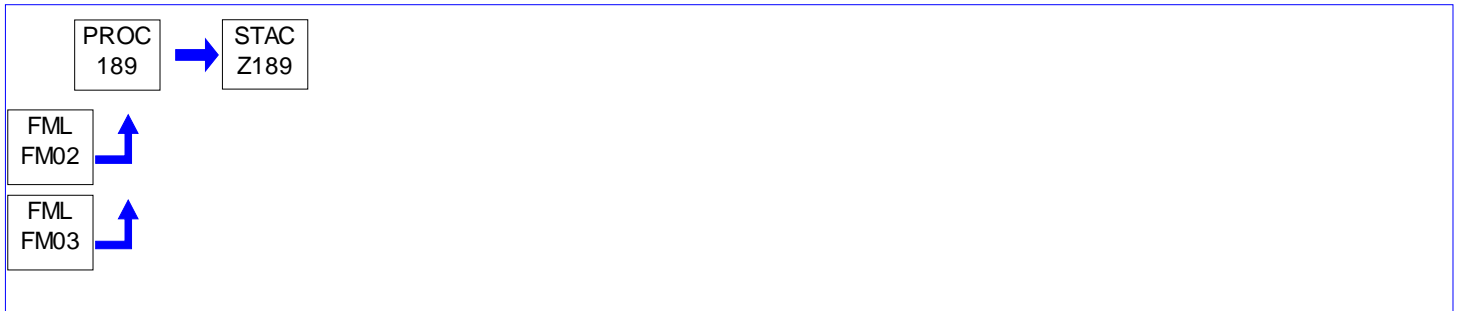
***** Permit Shield in Effect. *****

SECTION D. Source Level Requirements

Source ID: 189

Source Name: EMERGENCY GENERATORS

Source Capacity/Throughput:

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §123.13]****Processes**

No person may permit the emission from any emergency generator of Source ID 189 into the outdoor atmosphere of particulate matter in excess of 0.04 grains per dry standard cubic foot.

002 [25 Pa. Code §123.21]**General**

No person may permit the emission from any emergency generator of Source ID 189 into the outdoor atmosphere in a manner that the concentration of sulfur oxides (SO_x), expressed as SO₂, in the effluent gas is in excess of 500 parts per million, by volume, dry basis.

Fuel Restriction(s).**# 003 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Pursuant to the RACT provisions of Sections 129.91 through 129.95 of Chapter 129 of Article III of the Rules and Regulations of the Department of Environmental Protection, the emergency generators of Source ID 189 shall be fired only on natural gas or propane.

Operation Hours Restriction(s).**# 004 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

(a) Pursuant to the RACT provisions of Sections 129.91 through 129.95 of Chapter 129 of Article III of the Rules and Regulations of the Department of Environmental Protection, the GENERAC model 041190 generator of Source ID 189 shall not be operated more than 500 hours in any 12 consecutive month period.

(b) Pursuant to the RACT provisions of Sections 129.91 through 129.95 of Chapter 129 of Article III of the Rules and Regulations of the Department of Environmental Protection, the GENERAC model SG0065 generator of Source ID 189 shall not be operated more than 450 hours in any 12 consecutive month period.

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

SECTION D. Source Level Requirements**IV. RECORDKEEPING REQUIREMENTS.****# 005 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

Pursuant to the RACT provisions of Sections 129.91 through 129.95 of Chapter 129 of Article III of the Rules and Regulations of the Department of Environmental Protection, the permittee shall maintain records of the number of hours each generator is operated each month. These records shall be made available to the Department upon request and shall remain on file for five years.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VII. ADDITIONAL REQUIREMENTS.**# 006 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

Source ID 189 consists of the following emergency generators located in Plant 1:

(a) One GENERAC model SG0065 natural gas fired emergency generator with a heat input equal to approximately 1.4 MMBtu/hr.

(d) One GENERAC model 041190 propane fired emergency generator with a heat input equal to approximately 0.2 MMBtu/hr.

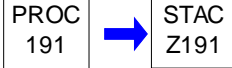
*** **Permit Shield in Effect.** ***

SECTION D. Source Level Requirements

Source ID: 191

Source Name: 14 PARTS WASHERS

Source Capacity/Throughput:



I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

IV. RECORDKEEPING REQUIREMENTS.

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) Pursuant to the presumptive RACT provisions of Section 129.63 of Chapter 129 of Article III of the Rules and Regulations of the Department of Environmental Protection, the permittee shall maintain accurate and comprehensive records of the following:

- (1) The name and address of the solvent supplier.
- (2) The type of solvent including the product or vendor identification number.
- (3) The vapor pressure of the solvent measured in mm Hg at 20°C (68°F).

(b) All such records shall be retained for at least five (5) years and shall be made available to the Department upon request.

(c) An invoice, bill of sale, certificate that corresponds to a number of sales, Material Safety Data Sheet (MSDS), or other appropriate documentation acceptable to the Department may be used to comply with provision (b).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) Pursuant to the presumptive RACT provisions of Section 129.63 of Chapter 129 of Article III of the Rules and Regulations of the Department of Environmental Protection, the cold batch cleaning machines incorporated in Source P191 shall be equipped with a cover(s) that shall be closed at all times except during the cleaning of parts or the addition or removal of solvent.

(b) A perforated drain with a diameter of not more than 6 inches shall constitute an acceptable cover.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

(a) Pursuant to the presumptive RACT provisions of Section 129.63 of Chapter 129 of Article III of the Rules and Regulations

SECTION D. Source Level Requirements

of the Department of Environmental Protection, the cold batch cleaning machines incorporated in Source P191 shall have a permanent, conspicuous label summarizing the following operating requirements:

- (1) Waste solvent shall be collected and stored in closed containers.
 - (i) The closed containers may contain a device that allows pressure relief, but does not allow liquid solvent to drain from the container.
- (2) Flushing of parts using a flexible hose or other flushing device shall be performed only within the cold cleaning machine.
- (3) The solvent spray shall be a solid fluid stream, not an atomized or shower spray.
- (4) Sponges, fabric, wood, leather, paper products and other absorbent materials may not be cleaned in the cold cleaning machine.
- (5) Air agitated solvent baths may not be used.
- (6) Spills during solvent transfer and use of the cold cleaning machine shall be cleaned up immediately.
- (b) In addition, the label shall also include the following discretionary good operating practices:
 - (1) Cleaned parts should be drained at least 15 seconds or until dripping ceases, whichever is longer.
 - (2) Parts having cavities or blind holes shall be tipped or rotated while the part is draining.
 - (i) During the draining, tipping or rotating, the parts should be positioned so that solvent drains directly back to the cold cleaning machine.
 - (3) When a pump-agitated solvent bath is used, the agitator should be operated to produce a rolling motion of the solvent with no observable splashing of the solvent against the tank walls or the parts being cleaned.
 - (4) Work area fans should be located and positioned so that they do not blow across the opening of the degreaser unit.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

- (a) Pursuant to the presumptive RACT provisions of Section 129.63 of Chapter 129 of Article III of the Rules and Regulations of the Department of Environmental Protection, the cold batch cleaning machines incorporated in Source P191 shall be operated in accordance with the following procedures:
- (1)Waste solvent shall be collected and stored in closed containers.
 - (i) The closed containers may contain a device that allows pressure relief, but does not allow liquid solvent to drain from the container.
 - (2) Flushing of parts using a flexible hose or other flushing device shall be performed only within the cold cleaning machine.
 - (3) The solvent spray shall be a solid fluid stream, not an atomized or shower spray.
Sponges, fabric, wood, leather, paper products and other absorbent materials may not be cleaned in the cold cleaning machine.
 - (4) Air agitated solvent baths may not be used.
 - (5) Spills during solvent transfer and use of the cold cleaning machine shall be cleaned up immediately.

VII. ADDITIONAL REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

Source ID 191 consists of the following sources:

Five (5) Safety-Kleen cold solvent parts degreasers located in Plant 1,

Three (3) Safety-Kleen solvent parts degreasers located in Plant 2, and

Six (6) Safety-Kleen solvent parts degreasers located in Plant 3.

Each parts degreaser of Source ID 191 has a vapor-liquid interfacial surface area less than 10 square feet.

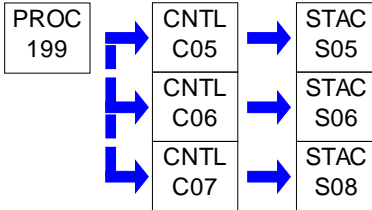
*** Permit Shield in Effect. ***

SECTION D. Source Level Requirements

Source ID: 199

Source Name: MOLDING LINES (SP01, SP02, & SP03)

Source Capacity/Throughput:



I. RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12][Compliance with this condition assures compliance with 25 Pa. Code Section 123.13]

No person may permit the emission into the outdoor atmosphere of particulate matter from each exhaust associated with Source ID 199, (IDs C05, C06, and C07) in a manner such that the concentration in the effluent gas exceeds 0.02 grains per dry standard cubic foot.

002 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code Section 127.1 and 127.12]

Pursuant to the RACT provisions of Sections 129.91 through 129.95 of Chapter 129 of Article III of the Rules and Regulations of the Department of Environmental Protection, the total combined volatile organic compound (VOC) emissions from the equipment of the three SPO molding lines that are controlled by Control Devices IDs C05, C06, and C07 (the SPO baghouses) associated with Source ID 199, and the equipment of Source ID 173 that are controlled by Control Device ID C23 (the Wheelabrator baghouse associated with Source ID 173) shall not exceed the following rates:

1) 55.3 pounds per hour

2) 165.9 tons per year.

003 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 CFR 63.7690(a)(5)]

The permittee shall not allow the emission of particulate matter (PM) from the each pouring station associated with Source ID 199 in a manner that each exhaust to the atmosphere of ID C05, C06 and C07 contains PM in excess of 0.010 gr/dscf.

II. TESTING REQUIREMENTS.

004 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 CFR 63.7731(a) and 63.7732(a)]

[Compliance with this streamlined permit condition will assure compliance with the provisions of 40 CFR 63.7743(a)(12)]

(a) No later than 5 years from the date of previous performance test, the permittee shall conduct performance tests on exhaust of ID C05, C06 and C07 to demonstrate compliance with the PM emission limitations listed above under I. Restrictions.

(b) The permittee shall comply with testing requirements specified in the provisions of 40 CFR 63.7(e)(1) in addition to the applicable provisions of 40 CFR 63.7732(b) through (h), relating to test methods.

SECTION D. Source Level Requirements

III. MONITORING REQUIREMENTS.

005 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 CFR 63.7710(b) and 40 CFR 63.7740(b)]

(a) The permittee shall install, operate, and maintain a bag leak detection system on IDs C05, C06 and C07 according to the requirements in 40 CFR 63.7741(b)(1) through (7), and the preventative maintenance plans, the site-specific monitoring plans and the corrective action plans for IDs C05, C06 and C07.

(b) The permittee shall at all times monitor the relative change in PM loading using a bag leak detection system and according to the requirements in 40 CFR 63.7741(b).

006 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 CFR 63.7740(b)]

The permittee shall conduct the following inspections at their specified frequencies:

- (1) Monitor the pressure drop across each cell of C05, C06 and C07 each day to ensure pressure drop is within the normal operating range identified in the manual
- (2) Monitor that dust is being removed from the hoppers of C05, C06 and C07 through hopper level detectors
- (3) Check the compressed air supply for C05, C06 and C07
- (4) Monitor cleaning cycles of C05, C06 and C07 to ensure proper operation using appropriate methodology
- (5) Check bag cleaning mechanisms for proper functioning through monthly visual inspection or equivalent means
- (6) Confirm the physical integrity of C05, C06 and C07 through quarterly visual inspections of each baghouse interior for air leaks
- (7) Inspect fans for wear, material buildup, and corrosion through quarterly visual inspections, vibration detectors, or equivalent means

007 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

Each fabric collector (IDs C05, C06, and C07) associated with Source ID 199 shall be equipped with instrumentation to continuously monitor the pressure differential across the collector.

IV. RECORDKEEPING REQUIREMENTS.

008 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 CFR 63.7741(b) and 63.7743(c)]

(a) At any time a SPO line of Source ID 199 is operating, the permittee shall continuously record the output of the relative particulate matter loadings from the respective bag leak detection systems of IDs C05, C06 and C07.

(b) All data used to comply with item (a) of this condition shall be meet requirements specified in the provisions of 40 CFR 63.7742, relating to collecting data.

(c) The permittee shall maintain accurate and comprehensive records to verify compliance with the maintenance and operational requirements for the bag leak detection systems listed below under VI. Work Practice Requirements and

(i) The times the bag leak detection system alarm sounded, and for each valid alarm, the time corrective action was initiated, description of corrective action taken, and the date on which corrective action was completed.

(d) All information needed to satisfy the requirements of this permit condition shall be kept for a period of 5 years and shall be made available to the Department upon request.

009 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 CFR 63.7743(c)]

(a) The permittee shall maintain accurate and comprehensive records to verify compliance with the inspection requirements listed above under III. Monitoring Requirements for C05, C06 and C07.

SECTION D. Source Level Requirements

(b) All information needed to satisfy the requirements of this permit condition shall be kept for a period of 5 years and shall be made available to the Department upon request.

010 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 CFR 63.7710(b)]

(a) The permittee shall keep the operation and maintenance plan for control device IDs C05, C06 and C07 available to the Department for review upon request.

(b) The plan shall include;

- (1) A preventative maintenance plan according to the requirements in 40 CFR 63.7710(b)(3)
- (2) A site specific monitoring plan according to the requirements in 40 CFR 63.7710(b)(4) for the bag leak detection system
- (3) Corrective action plan according to the requirements in 40 CFR 63.7710(b)(5)

(c) Pursuant to the RACT provisions of Sections 129.91 through 129.95 of Chapter 129 of Article III of the Rules and Regulations of the Department of Environmental Protection, the permittee shall keep the procedures for igniting gases from mold vents associated with Source ID 199 or maintain records of the ignitability determination according to 40 CFR 63.7710(b)(6) available to the Department for review upon request.

011 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is derived from 25 Pa. Code Section 127.511]

(a) The permittee shall keep records of the following:

(1) Such information as is necessary to demonstrate that compliance with the particulate emission limitation specified above under I. Restrictions.

(2) Pursuant to the recordkeeping requirements of Section 129.95 of Chapter 129 of Article III of the Rules and Regulations of the Department of Environmental Protection, such information as is necessary to demonstrate that compliance with the combined VOC emission limitations specified above under I. Restrictions.

(b) These records shall be retained for a minimum of five (5) years and shall be made available to the Department upon request.

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this permit including Section B (Title V General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

012 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 40 CFR 63.7741(b)]

The permittee shall operate and maintain the bag leak detection systems of IDs C05, C06 and C07 according to the requirements specified in the provisions of 40 CFR 63.7741(b)(1) through (7).

013 [25 Pa. Code §127.441]

Operating permit terms and conditions.

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The permittee shall keep on hand a sufficient quantity of spare fabric collector bags for each of the fabric collectors (IDs C05, C06, and C07) associated with Source ID 199 in order to be able to immediately replace any bag requiring replacement due to the deterioration resulting from routine operation of the sources and fabric collectors.

SECTION D. Source Level Requirements**# 014 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1 and 127.12]

The air compressor(s) used to supply compressed air to the fabric collectors of Source ID 199, (IDs C05, C06, and C07), shall be equipped with an air dryer and oil trap.

015 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 40 CFR 63.7710]

(a) The permittee shall operate and maintain Source ID 199 including all associated control devices in a manner consistent with good air pollution control practices for minimizing emissions at least to the limitations herein, as required to the provisions 40 CFR 63.6(e)(1)(i).

(b) The permittee shall operate and maintain Source ID 199 including all associated control devices at all times according to the respective written operation and maintenance plans.

016 [25 Pa. Code §127.441]**Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 40 CFR 63.7745(a)(5)]

(a) Pursuant to the RACT provisions of Sections 129.91 through 129.95 of Chapter 129 of Article III of the Rules and Regulations of the Department of Environmental Protection, the permittee shall ignite gases from mold vents according to the procedures in the plan required by 40 CFR 63.7710(b)(6).

(b) The permittee shall include any instance where the gases from mold vents are not ignited by procedures in item (a) in the semiannual compliance report required herein under Section C, V. Reporting Requirements.

VII. ADDITIONAL REQUIREMENTS.**# 017 [25 Pa. Code §127.441]****Operating permit terms and conditions.**

[Additional authority for this permit condition is also derived from 25 Pa. Code Sections 127.1, 127.12, and 127.511]

(l) Source ID 199 consists of three (3) SPO molding lines and associated sand handling equipment Identified as SPO1, SPO2, and SPO3.

(a) SPO1 consists of the following equipment:

- (1) Spill and Sand Pit Conveyor
- (2) Pouring Conveyor
- (3) Mold Cooling Conveyor
- (4) Rollover, Punchout, Separator, and Casting Conveyor
- (5) Discharge to Didion Feed Conveyor
- (6) Didion Feed or "Punchout to Drum" Conveyor (Unit 11b)
- (7) Didion Media Drum (Unit 11)
- (8) Didion Discharge
- (9) Accumulating/Cooling Conveyor (Unit 13a)
- (10) Didion Sand Discharge Conveyor (Unit 15)
- (11) Return Sand Belt (1st floor to 2nd floor)
- (12) Return Sand or Reclaim Bins (Mary's Room)
- (13) Beardsley & Piper Twin Muller

The air contaminant emissions from all equipment of SPO1 shall be controlled by its own Wheelabrator #7117 TA-SB model 144 Jet III D/C fabric collector (Control Device ID C05).

(b) SPO2 which consists of the following equipment:

SECTION D. Source Level Requirements

- (1) Cupola Runner
- (2) Ladle Fill station
- (3) Pouring Conveyor
- (4) Spill Sand Pit Conveyor
- (5) Mold Cooling Conveyor
- (6) Rollover, Punchout, Separator, and Casting Conveyor
- (7) Discharge to Didion Feed Conveyor
- (8) Return Sand Belt (basement to 1st floor)
- (9) Didion Feed or "Punchout to Drum" Conveyor (Unit 19a)
- (10) Didion Media Drum (Unit 20)
- (11) Didion Sand Discharge Conveyor (Unit 15)
- (12) Didion Discharge
- (13) Accumulating/Cooling Conveyor (Unit 21a)
- (14) Deaccumulating Conveyers (Units 13b and 21b)

The air contaminant emissions from all equipment of SPO2 shall be controlled by its own Wheelabrator #7117 TA-SB model 144 Jet III D/C fabric collector (Control Device ID C06).

(c) SPO3 which consists of the following equipment:

- (1) Spill Sand Pit Conveyor
- (2) Rollover, Punchout, Separator, and Casting Conveyor
- (3) Spill Sand and Casting Conveyor
- (4) Pouring Conveyor
- (5) Mold Cooling Conveyor
- (6) Apron Conveyor
- (7) Apron Conveyor Discharge to Didion Feed Conveyor
- (8) Didion Feed or "Punchout to Drum" Conveyor (Unit 36)
- (9) Didion Media Drum (Unit 37)
- (10) Didion Discharge
- (11) Accumulating/Cooling Conveyor (Unit 38a)
- (12) Deaccumulating Conveyor (Unit 38b)

The air contaminant emissions from all units of SPO3 shall be controlled by its own Wheelabrator #7117 TA-SB model 144 Jet III D/C fabric collector (Control Device ID C07).

(II) At no time may any piece of equipment of SPO1, SPO2, or SPO3 be operated without the simultaneous operation of its associated fabric collector.

018 [25 Pa. Code §127.441]

Operating permit terms and conditions.

Source ID 199 includes pouring station as defined in 40 CFR 63.7765, and is subject to the National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries. The permittee shall comply with all applicable requirements specified in the provisions of 40 CFR 63.7680 through 63.7765.

***** Permit Shield in Effect. *****



SECTION E. Alternative Operation Requirements.

No Alternative Operations exist for this Title V facility.

SECTION F. Emission Restriction Summary.

Source Id	Source Description																
034	18 AIR MAKEUP UNITS																
<table> <tr> <th>Emission Limit</th><th>Pollutant</th></tr> <tr> <td>4.000 Lbs/MMBTU</td><td>SOX</td></tr> <tr> <td>0.400 Lbs/MMBTU</td><td>TSP</td></tr> </table>		Emission Limit	Pollutant	4.000 Lbs/MMBTU	SOX	0.400 Lbs/MMBTU	TSP										
Emission Limit	Pollutant																
4.000 Lbs/MMBTU	SOX																
0.400 Lbs/MMBTU	TSP																
035	COMBUSTION UNITS																
<table> <tr> <th>Emission Limit</th><th>Pollutant</th></tr> <tr> <td>4.000 Lbs/MMBTU</td><td>SOX</td></tr> </table>		Emission Limit	Pollutant	4.000 Lbs/MMBTU	SOX												
Emission Limit	Pollutant																
4.000 Lbs/MMBTU	SOX																
105	ANNEAL OVENS																
<table> <tr> <th>Emission Limit</th><th>Pollutant</th></tr> <tr> <td>500.000 PPMV dry basis</td><td>SOX</td></tr> <tr> <td>0.040 gr/DRY FT3</td><td>TSP</td></tr> </table>		Emission Limit	Pollutant	500.000 PPMV dry basis	SOX	0.040 gr/DRY FT3	TSP										
Emission Limit	Pollutant																
500.000 PPMV dry basis	SOX																
0.040 gr/DRY FT3	TSP																
107	3 TUMBLAST MACHINES																
<table> <tr> <th>Emission Limit</th><th>Pollutant</th></tr> <tr> <td>0.040 gr/DRY FT3</td><td>TSP</td></tr> </table>		Emission Limit	Pollutant	0.040 gr/DRY FT3	TSP												
Emission Limit	Pollutant																
0.040 gr/DRY FT3	TSP																
109	23 GRINDERS & SANDERS																
<table> <tr> <th>Emission Limit</th><th>Pollutant</th></tr> <tr> <td>0.040 gr/DRY FT3</td><td>TSP</td></tr> </table>		Emission Limit	Pollutant	0.040 gr/DRY FT3	TSP												
Emission Limit	Pollutant																
0.040 gr/DRY FT3	TSP																
149	CORE ROOM OPERATIONS																
<table> <tr> <th>Emission Limit</th><th>Pollutant</th></tr> <tr> <td>500.000 PPMV dry basis</td><td>SOX</td></tr> <tr> <td>0.020 gr/DRY FT3 exhausts > 7935 SCFM</td><td>TSP</td></tr> <tr> <td>1.360 Lbs/Hr exhausts < 7935 SCFM</td><td>TSP</td></tr> </table>		Emission Limit	Pollutant	500.000 PPMV dry basis	SOX	0.020 gr/DRY FT3 exhausts > 7935 SCFM	TSP	1.360 Lbs/Hr exhausts < 7935 SCFM	TSP								
Emission Limit	Pollutant																
500.000 PPMV dry basis	SOX																
0.020 gr/DRY FT3 exhausts > 7935 SCFM	TSP																
1.360 Lbs/Hr exhausts < 7935 SCFM	TSP																
149W	FURAN WARM BOX CORE MACHINE																
<table> <tr> <th>Emission Limit</th><th>Pollutant</th></tr> <tr> <td>0.230 Tons/Yr any 12 CMP</td><td>CO</td></tr> <tr> <td>1.000 Tons/Yr any 12 CMP</td><td>Hazardous Air Pollutants</td></tr> <tr> <td>1.100 Tons/Yr any 12 CMP</td><td>NOX</td></tr> <tr> <td>500.000 PPMV</td><td>SOX</td></tr> <tr> <td>0.010 gr/DRY FT3</td><td>TSP</td></tr> <tr> <td>3.000 Tons/Yr any 12 CMP</td><td>TSP</td></tr> <tr> <td>15.570 Tons/Yr any 12 CMP</td><td>VOC</td></tr> </table>		Emission Limit	Pollutant	0.230 Tons/Yr any 12 CMP	CO	1.000 Tons/Yr any 12 CMP	Hazardous Air Pollutants	1.100 Tons/Yr any 12 CMP	NOX	500.000 PPMV	SOX	0.010 gr/DRY FT3	TSP	3.000 Tons/Yr any 12 CMP	TSP	15.570 Tons/Yr any 12 CMP	VOC
Emission Limit	Pollutant																
0.230 Tons/Yr any 12 CMP	CO																
1.000 Tons/Yr any 12 CMP	Hazardous Air Pollutants																
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500.000 PPMV	SOX																
0.010 gr/DRY FT3	TSP																
3.000 Tons/Yr any 12 CMP	TSP																
15.570 Tons/Yr any 12 CMP	VOC																
161	DIP TANK & PARTS SPINNER																
<table> <tr> <th>Emission Limit</th><th>Pollutant</th></tr> <tr> <td>0.040 gr/DRY FT3</td><td>TSP</td></tr> </table>		Emission Limit	Pollutant	0.040 gr/DRY FT3	TSP												
Emission Limit	Pollutant																
0.040 gr/DRY FT3	TSP																

**SECTION F. Emission Restriction Summary.**

Source Id	Source Description		
173	MOLDING & CASTING OPERATIONS		
Emission Limit		Pollutant	
0.010	gr/DRY FT3		TSP
55.300	Lbs/Hr	Total from Source IDs 173 and 199	VOC
165.900	Tons/Yr	Total from Source IDs 173 and 199	VOC
181	PLANT 1 EVAPORATOR		
Emission Limit		Pollutant	
500.000	PPMV	dry basis	SOX
185	BOND SILO		
Emission Limit		Pollutant	
0.040	gr/DRY FT3		TSP
189	EMERGENCY GENERATORS		
Emission Limit		Pollutant	
500.000	PPMV	dry basis	SOX
0.040	gr/DRY FT3		TSP
199	MOLDING LINES (SP01, SP02, & SP03)		
Emission Limit		Pollutant	
0.020	gr/DRY FT3	from each exhaust	TSP
55.300	Lbs/Hr	Total from Source IDs 173 and 199	VOC
165.900	Tons/Yr	Total from Source IDs 173 and 199	VOC

Site Emission Restriction Summary

Emission Limit	Pollutant
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SECTION G. Miscellaneous.

This Operating Permit No. TVOP 59-00004 was originally issued on January 8, 2001 and expires on December 31, 2005. Revision No. 1 issued on December 19, 2001 was a minor permit modification to establish a new pressure drop requirement across the venturi scrubber controlling emissions from the cupola, Source ID 101. All revised monitoring, record keeping and reporting requirements pertaining to revision No. 1 became effective on December 19, 2001.

Revision No. 2 issued on February 14, 2002 was an administrative amendment that incorporated the terms and conditions from plan approval 59-00004A for the operation of three foundry molding lines and their associated fabric collectors. All revised monitoring, recordkeeping, and reporting requirements became effective on February 14, 2002.

Revision No. 3 issued on December 19, 2002 was a minor operating permit modification which allowed the replacement of a double cone wet cap with a seal cap and a particulate drop out box to control particulate emissions from the cupola. All revised monitoring, recordkeeping, and reporting requirements became effective on December 19, 2002.

Revision No. 4 issued on October 31, 2003 was an administrative amendment that incorporated the terms and conditions from plan approval 59-00004B for the operation of a automatic warm box core making machine (Source ID 149W) and its associated fabric collector. All revised monitoring, recordkeeping, and reporting requirements became effective on October 31, 2003.

Revision No. 5 issued on February 1, 2005 was an administrative amendment that incorporated the terms and conditions from plan approval 59-00004C for the installation of a fabric collector (Control Device C51) to control the air contaminant emissions from the cupola (Source ID 101). All revised monitoring, recordkeeping, and reporting requirements became effective on February 1, 2005.

Revision No. 6 issued on June 3, 2005 was a minor operating permit modification which deleted the requirement to maintain records of the blast air rate for Source ID 101, modified the injection duration of EnviroBlend, or its equivalent, into the exhaust of Source ID 101 using the totally enclosed treatment system (TETS) to a minimum of six hours each day that Source ID 101 operates and modified the description of Control Device ID C10 to reflect that it now incorporates two 5.2 million Btu per hour natural gas-fired Maxon afterburners, or its equivalent as determined by the Department. All revised monitoring, recordkeeping, and reporting requirements became effective on June 3, 2005.

Revision No. 7 issued on August 5, 2010 was an administrative amendment that incorporated the terms and conditions from Plan Approval 59-00004E for the operation of a tumbler blast cleaning and peening machine (Source ID 107) and its associated fabric collector. All revised monitoring, recordkeeping, and reporting requirements became effective on August 5, 2010.

Operating Permit No. TVOP 59-00004 was renewed on August 4, 2011 and expires on August 3, 2016. The renewed operating permit incorporated the terms and conditions from Plan Approval 59-00004D for the operation of a wastewater evaporator (Source ID 181A) and Plan Approval 59-00004F for the operation of a tumbler blast cleaning and peening machine (Source ID 107) and its associated fabric collector, as well as the terms and conditions from RACT Operating Permit OP-59-0004. All revised monitoring, recordkeeping, and reporting requirements became effective on August 4, 2011.

Revision No. 8 issued on June 21, 2012 was an administrative amendment that incorporated the terms and conditions from Plan Approval 59-00004G for the operation of a tumbler blast cleaning and peening machine (Source ID 163) and its associated fabric collector. All revised monitoring, recordkeeping, and reporting requirements became effective on June 21, 2012.

Revision No. 9 issued January 30, 2015, was a minor permit modification that included the addition of a binder for use in Source ID 149W and four core machines authorized by three RFD approvals under Source ID 149A.

Revision No. 10 issued April 30, 2014, was a significant permit modification that incorporated the terms and conditions of Plan Approval 59-00004H for the operation of a Metcast M-14D tumblast machine under Source ID 163 and established CAM conditions for Source ID 163 in accordance with 40 CFR Part 64.



***** End of Report *****